



ANALYTICAL REPORT

Lab Number:	L1503503
Client:	University of Connecticut 1080 Shennecossett Road Marine Sciences Dept Groton, CT 06340
ATTN:	James O'Donnell
Phone:	(401) 932-5703
Project Name:	LIS-USACOE RIM DREDGE
Project Number:	Not Specified
Report Date:	03/16/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), ME (MA00030), PA (68-02089), VA (460194), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), USFWS (Permit #LE2069641), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1503503-01	L-56	SEDIMENT	EASTERN LONG ISLAND SOUND	02/24/15 11:22	02/24/15
L1503503-02	L-55	SEDIMENT	EASTERN LONG ISLAND SOUND	02/24/15 12:01	02/24/15
L1503503-03	L-54	SEDIMENT	EASTERN LONG ISLAND SOUND	02/24/15 12:35	02/24/15
L1503503-04	L-53	SEDIMENT	EASTERN LONG ISLAND SOUND	02/24/15 13:01	02/24/15
L1503503-05	L-52	SEDIMENT	EASTERN LONG ISLAND SOUND	02/24/15 13:52	02/24/15
L1503503-06	L-51	SEDIMENT	EASTERN LONG ISLAND SOUND	02/24/15 14:20	02/24/15
L1503503-07	L-62	SEDIMENT	EASTERN LONG ISLAND SOUND	02/24/15 14:35	02/24/15
L1503503-08	L41	SEDIMENT	EASTERN LONG ISLAND SOUND	02/25/15 09:33	02/26/15
L1503503-09	L32	SEDIMENT	EASTERN LONG ISLAND SOUND	02/25/15 10:05	02/26/15
L1503503-10	L35	SEDIMENT	EASTERN LONG ISLAND SOUND	02/25/15 10:19	02/26/15
L1503503-11	L33	SEDIMENT	EASTERN LONG ISLAND SOUND	02/25/15 10:35	02/26/15
L1503503-12	L31	SEDIMENT	EASTERN LONG ISLAND SOUND	02/25/15 11:00	02/26/15
L1503503-13	L34	SEDIMENT	EASTERN LONG ISLAND SOUND	02/25/15 11:19	02/26/15
L1503503-14	L36	SEDIMENT	EASTERN LONG ISLAND SOUND	02/25/15 11:35	02/26/15
L1503503-15	L37	SEDIMENT	EASTERN LONG ISLAND SOUND	02/25/15 12:36	02/26/15
L1503503-16	L38	SEDIMENT	EASTERN LONG ISLAND SOUND	02/25/15 13:06	02/26/15
L1503503-17	L40	SEDIMENT	EASTERN LONG ISLAND SOUND	02/25/15 13:30	02/26/15
L1503503-18	L39	SEDIMENT	EASTERN LONG ISLAND SOUND	02/25/15 13:45	02/26/15
L1503503-19	L26A	SEDIMENT	EASTERN LONG ISLAND SOUND	02/25/15 14:24	02/26/15
L1503503-20	L26B	SEDIMENT	EASTERN LONG ISLAND SOUND	02/25/15 14:30	02/26/15

Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

Case Narrative (continued)

Report Submission

This report replaces the one issued on March 11, 2015. The report was amended to correct the grain size results.

Semivolatile Organics

PAHs and PCBs by GC/MS-SIM

Sample L1503503-01 was inadvertently spiked with twice the concentration of internal standard for Cl2-BZ#15-C13 and CL17BZ#180-C13. The concentration was adjusted on the quantitation report in order to perform an accurate calculation of the sample results. This is evident in on the quantitation report in the data deliverable package as well as on Form 8 of the CLP-package.

The WG766025-6 Laboratory Duplicate RPD, performed on L1503503-07, is outside the acceptance criteria for several compounds. The elevated RPDs have been attributed to the non-homogeneous nature of the sample utilized as the sample duplicate.

The standard reference material (SRM) WG766025-7 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

Pesticides

The Pesticide analysis was performed utilizing dual column confirmation with the higher of the two values reported. If the relative percent difference (RPD) was above the acceptance criteria the compound is reported with a "P" qualifier. Technical judgment was employed in the case of an observed interference. In the case that interference was observed on one column, the lower value is reported and qualified with an "I".

The opening continuing calibration standard WG766870-1, associated with samples L1503503-01 through -06, WG766032-1, -2 and -3, had the response for Hexachlorobenzene (15.2%D-column B) and alpha-Chlordane (19.7%D-column B) outside the individual acceptance criteria but within method allowance, therefore no further action was taken.

Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

Case Narrative (continued)

The continuing calibration standard WG766870-2, which is the closing standard for samples L1503503-01 through -06, WG766032-1, -2 and -3 and the opening standard for samples L1503503-08 through -12, had the response for alpha-Chlordane (18.2%D-column B) outside the individual acceptance criteria but within method allowance, therefore no further action was taken.

The closing continuing calibration standard WG766870-3, associated with samples L1503503-08 through -12, had the response for alpha-Chlordane (18.1%D-column B) outside the individual acceptance criteria but within method allowance, therefore no further action was taken.

The closing continuing calibration standard WG766870-5, associated with samples L1503503-13 through -20, -07, WG766032-5,-6 and -7D, had the response for gamma-BHC (15.1%D-column A), Aldrin (15.3%D-column A) and 4,4'-DDD (16.5%D-column A) outside the individual acceptance criteria but within method allowance, therefore no further action was taken.

The opening continuing calibration standard WG766870-6, associated with sample WG766032-4, had the response for gamma-BHC (15.4%D-column A), Aldrin (15.3%D-column A) and 4,4'-DDD (15.7%D-column A) outside the individual acceptance criteria but within method allowance, therefore no further action was taken.

The closing continuing calibration standard WG766870-7, associated with sample WG766032-4, had the response for gamma-BHC (16.4%D-column A), Aldrin (16.5%D-column A) and Dieldrin (15.1%D-column A) outside the individual acceptance criteria but within method allowance, therefore no further action was taken.

The performance evaluation mixture (PEM) (R7447821-1) was inadvertently analyzed after the continuing calibration standard (WG766870-1) after instrument maintenance was performed. The breakdown was within criteria for the PEM and the all of the monitored compounds were within acceptance criteria for the associated standard WG766870-1, therefore no further action was taken.

The standard reference material (SRM) WG766032-7 had the compound trans-Nonachlor recovered above

Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

Case Narrative (continued)

the acceptance criteria at 316% due to matrix interference. All other monitored compounds were recovered within acceptance criteria. In addition the SRM has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

Total Organic Carbon

Samples L1503503-02, -05: The Sample Replicate RPD is outside the acceptance criteria of 30%. A double-burn re-analysis was performed with confirming results. The results of the original analysis are reported. The elevated RPD has been attributed to the non-homogeneous nature of the sample.

The WG766621-4/-5 MS/MSD recoveries for Total Organic Carbon (Rep1 - 60%/65%) and (Rep2 - 136%), performed on L1503503-07, are outside the 75-125% acceptance criteria, possibly due to sample matrix. The associated SRM recoveries are within criteria indicating the sample batch was in control, and all sample results were accepted.

Grain Size Analysis

The WG766710-1 Laboratory Duplicate RPD, performed on L1503503-07, is outside the acceptance criteria for Percent Total Gravel (38%) and Percent Total Fines (29%). The elevated RPD has been attributed to the non-homogeneous nature of the sample utilized for the laboratory duplicate.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Cynthia McQueen

Title: Technical Director/Representative

Date: 03/16/15

ORGANICS

SEMIVOLATILES



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-01
 Client ID: L-56
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 03/05/15 23:23
 Analyst: CM
 Percent Solids: 70%

Date Collected: 02/24/15 11:22
 Date Received: 02/24/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Naphthalene	ND		ug/kg	6.68	--	1
Acenaphthylene	ND		ug/kg	6.68	--	1
Acenaphthene	ND		ug/kg	6.68	--	1
Fluorene	ND		ug/kg	6.68	--	1
Phenanthrene	ND		ug/kg	6.68	--	1
Anthracene	ND		ug/kg	6.68	--	1
Fluoranthene	9.42		ug/kg	6.68	--	1
Pyrene	9.92		ug/kg	6.68	--	1
Benz(a)anthracene	ND		ug/kg	6.68	--	1
Chrysene	ND		ug/kg	6.68	--	1
Benzo(b)fluoranthene	ND		ug/kg	6.68	--	1
Benzo(k)fluoranthene	ND		ug/kg	6.68	--	1
Benzo(a)pyrene	ND		ug/kg	6.68	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	6.68	--	1
Dibenz(a,h)anthracene	ND		ug/kg	6.68	--	1
Benzo(ghi)perylene	ND		ug/kg	6.68	--	1
Cl2-BZ#8	ND		ug/kg	0.668	--	1
Cl3-BZ#18	ND		ug/kg	0.668	--	1
Cl3-BZ#28	ND		ug/kg	0.668	--	1
Cl4-BZ#44	ND		ug/kg	0.668	--	1
Cl4-BZ#49	ND		ug/kg	0.668	--	1
Cl4-BZ#52	ND		ug/kg	0.668	--	1
Cl4-BZ#66	ND		ug/kg	0.668	--	1
Cl5-BZ#87	ND		ug/kg	0.668	--	1
Cl5-BZ#101	ND		ug/kg	0.668	--	1
Cl5-BZ#105	ND		ug/kg	0.668	--	1
Cl5-BZ#118	ND		ug/kg	0.668	--	1
Cl6-BZ#128	ND		ug/kg	0.668	--	1
Cl6-BZ#138	ND		ug/kg	0.668	--	1
Cl6-BZ#153	ND		ug/kg	0.668	--	1



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-01

Date Collected: 02/24/15 11:22

Client ID: L-56

Date Received: 02/24/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
CI7-BZ#170	ND		ug/kg	0.668	--	1
CI7-BZ#180	ND		ug/kg	0.668	--	1
CI7-BZ#183	ND		ug/kg	0.668	--	1
CI7-BZ#184	ND		ug/kg	0.668	--	1
CI7-BZ#187	ND		ug/kg	0.668	--	1
CI8-BZ#195	ND		ug/kg	0.668	--	1
CI9-BZ#206	ND		ug/kg	0.668	--	1
CI10-BZ#209	ND		ug/kg	0.668	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	81		30-150
Pyrene-d10	85		30-150
Benzo(b)fluoranthene-d12	83		30-150
DBOB	84		30-150
BZ 198	77		30-150

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-02
 Client ID: L-55
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 03/05/15 23:55
 Analyst: CM
 Percent Solids: 80%

Date Collected: 02/24/15 12:01
 Date Received: 02/24/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Naphthalene	ND		ug/kg	11.4	--	1
Acenaphthylene	ND		ug/kg	11.4	--	1
Acenaphthene	ND		ug/kg	11.4	--	1
Fluorene	ND		ug/kg	11.4	--	1
Phenanthrene	ND		ug/kg	11.4	--	1
Anthracene	ND		ug/kg	11.4	--	1
Fluoranthene	ND		ug/kg	11.4	--	1
Pyrene	ND		ug/kg	11.4	--	1
Benz(a)anthracene	ND		ug/kg	11.4	--	1
Chrysene	ND		ug/kg	11.4	--	1
Benzo(b)fluoranthene	ND		ug/kg	11.4	--	1
Benzo(k)fluoranthene	ND		ug/kg	11.4	--	1
Benzo(a)pyrene	ND		ug/kg	11.4	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	11.4	--	1
Dibenz(a,h)anthracene	ND		ug/kg	11.4	--	1
Benzo(ghi)perylene	ND		ug/kg	11.4	--	1
Cl2-BZ#8	ND		ug/kg	1.14	--	1
Cl3-BZ#18	ND		ug/kg	1.14	--	1
Cl3-BZ#28	ND		ug/kg	1.14	--	1
Cl4-BZ#44	ND		ug/kg	1.14	--	1
Cl4-BZ#49	ND		ug/kg	1.14	--	1
Cl4-BZ#52	ND		ug/kg	1.14	--	1
Cl4-BZ#66	ND		ug/kg	1.14	--	1
Cl5-BZ#87	ND		ug/kg	1.14	--	1
Cl5-BZ#101	ND		ug/kg	1.14	--	1
Cl5-BZ#105	ND		ug/kg	1.14	--	1
Cl5-BZ#118	ND		ug/kg	1.14	--	1
Cl6-BZ#128	ND		ug/kg	1.14	--	1
Cl6-BZ#138	ND		ug/kg	1.14	--	1
Cl6-BZ#153	ND		ug/kg	1.14	--	1



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-02

Date Collected: 02/24/15 12:01

Client ID: L-55

Date Received: 02/24/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
CI7-BZ#170	ND		ug/kg	1.14	--	1
CI7-BZ#180	ND		ug/kg	1.14	--	1
CI7-BZ#183	ND		ug/kg	1.14	--	1
CI7-BZ#184	ND		ug/kg	1.14	--	1
CI7-BZ#187	ND		ug/kg	1.14	--	1
CI8-BZ#195	ND		ug/kg	1.14	--	1
CI9-BZ#206	ND		ug/kg	1.14	--	1
CI10-BZ#209	ND		ug/kg	1.14	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	84		30-150
Pyrene-d10	90		30-150
Benzo(b)fluoranthene-d12	88		30-150
DBOB	87		30-150
BZ 198	83		30-150

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-03
 Client ID: L-54
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 03/06/15 00:28
 Analyst: CM
 Percent Solids: 79%

Date Collected: 02/24/15 12:35
 Date Received: 02/24/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Naphthalene	ND		ug/kg	11.9	--	1
Acenaphthylene	ND		ug/kg	11.9	--	1
Acenaphthene	ND		ug/kg	11.9	--	1
Fluorene	ND		ug/kg	11.9	--	1
Phenanthrene	ND		ug/kg	11.9	--	1
Anthracene	ND		ug/kg	11.9	--	1
Fluoranthene	ND		ug/kg	11.9	--	1
Pyrene	ND		ug/kg	11.9	--	1
Benzo(a)anthracene	ND		ug/kg	11.9	--	1
Chrysene	ND		ug/kg	11.9	--	1
Benzo(b)fluoranthene	ND		ug/kg	11.9	--	1
Benzo(k)fluoranthene	ND		ug/kg	11.9	--	1
Benzo(a)pyrene	ND		ug/kg	11.9	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	11.9	--	1
Dibenz(a,h)anthracene	ND		ug/kg	11.9	--	1
Benzo(ghi)perylene	ND		ug/kg	11.9	--	1
Cl2-BZ#8	ND		ug/kg	1.19	--	1
Cl3-BZ#18	ND		ug/kg	1.19	--	1
Cl3-BZ#28	ND		ug/kg	1.19	--	1
Cl4-BZ#44	ND		ug/kg	1.19	--	1
Cl4-BZ#49	ND		ug/kg	1.19	--	1
Cl4-BZ#52	ND		ug/kg	1.19	--	1
Cl4-BZ#66	ND		ug/kg	1.19	--	1
Cl5-BZ#87	ND		ug/kg	1.19	--	1
Cl5-BZ#101	ND		ug/kg	1.19	--	1
Cl5-BZ#105	ND		ug/kg	1.19	--	1
Cl5-BZ#118	ND		ug/kg	1.19	--	1
Cl6-BZ#128	ND		ug/kg	1.19	--	1
Cl6-BZ#138	ND		ug/kg	1.19	--	1
Cl6-BZ#153	ND		ug/kg	1.19	--	1



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-03

Date Collected: 02/24/15 12:35

Client ID: L-54

Date Received: 02/24/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
CI7-BZ#170	ND		ug/kg	1.19	--	1
CI7-BZ#180	ND		ug/kg	1.19	--	1
CI7-BZ#183	ND		ug/kg	1.19	--	1
CI7-BZ#184	ND		ug/kg	1.19	--	1
CI7-BZ#187	ND		ug/kg	1.19	--	1
CI8-BZ#195	ND		ug/kg	1.19	--	1
CI9-BZ#206	ND		ug/kg	1.19	--	1
CI10-BZ#209	ND		ug/kg	1.19	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	82		30-150
Pyrene-d10	90		30-150
Benzo(b)fluoranthene-d12	88		30-150
DBOB	87		30-150
BZ 198	82		30-150

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-04
 Client ID: L-53
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 03/06/15 01:01
 Analyst: CM
 Percent Solids: 62%

Date Collected: 02/24/15 13:01
 Date Received: 02/24/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Naphthalene	ND		ug/kg	7.65	--	1
Acenaphthylene	11.6		ug/kg	7.65	--	1
Acenaphthene	ND		ug/kg	7.65	--	1
Fluorene	ND		ug/kg	7.65	--	1
Phenanthrene	47.6		ug/kg	7.65	--	1
Anthracene	8.84		ug/kg	7.65	--	1
Fluoranthene	115		ug/kg	7.65	--	1
Pyrene	105		ug/kg	7.65	--	1
Benz(a)anthracene	47.1		ug/kg	7.65	--	1
Chrysene	62.2		ug/kg	7.65	--	1
Benzo(b)fluoranthene	64.3		ug/kg	7.65	--	1
Benzo(k)fluoranthene	63.2		ug/kg	7.65	--	1
Benzo(a)pyrene	60.0		ug/kg	7.65	--	1
Indeno(1,2,3-cd)Pyrene	51.4		ug/kg	7.65	--	1
Dibenz(a,h)anthracene	9.33		ug/kg	7.65	--	1
Benzo(ghi)perylene	48.3		ug/kg	7.65	--	1
Cl2-BZ#8	ND		ug/kg	0.765	--	1
Cl3-BZ#18	ND		ug/kg	0.765	--	1
Cl3-BZ#28	ND		ug/kg	0.765	--	1
Cl4-BZ#44	ND		ug/kg	0.765	--	1
Cl4-BZ#49	ND		ug/kg	0.765	--	1
Cl4-BZ#52	ND		ug/kg	0.765	--	1
Cl4-BZ#66	ND		ug/kg	0.765	--	1
Cl5-BZ#87	ND		ug/kg	0.765	--	1
Cl5-BZ#101	ND		ug/kg	0.765	--	1
Cl5-BZ#105	ND		ug/kg	0.765	--	1
Cl5-BZ#118	ND		ug/kg	0.765	--	1
Cl6-BZ#128	ND		ug/kg	0.765	--	1
Cl6-BZ#138	ND		ug/kg	0.765	--	1
Cl6-BZ#153	ND		ug/kg	0.765	--	1



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-04

Date Collected: 02/24/15 13:01

Client ID: L-53

Date Received: 02/24/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
CI7-BZ#170	ND		ug/kg	0.765	--	1
CI7-BZ#180	ND		ug/kg	0.765	--	1
CI7-BZ#183	ND		ug/kg	0.765	--	1
CI7-BZ#184	ND		ug/kg	0.765	--	1
CI7-BZ#187	ND		ug/kg	0.765	--	1
CI8-BZ#195	ND		ug/kg	0.765	--	1
CI9-BZ#206	ND		ug/kg	0.765	--	1
CI10-BZ#209	ND		ug/kg	0.765	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	85		30-150
Pyrene-d10	88		30-150
Benzo(b)fluoranthene-d12	87		30-150
DBOB	92		30-150
BZ 198	91		30-150

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-05
 Client ID: L-52
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 03/06/15 01:34
 Analyst: CM
 Percent Solids: 81%

Date Collected: 02/24/15 13:52
 Date Received: 02/24/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Naphthalene	ND		ug/kg	10.6	--	1
Acenaphthylene	ND		ug/kg	10.6	--	1
Acenaphthene	ND		ug/kg	10.6	--	1
Fluorene	ND		ug/kg	10.6	--	1
Phenanthrene	ND		ug/kg	10.6	--	1
Anthracene	ND		ug/kg	10.6	--	1
Fluoranthene	ND		ug/kg	10.6	--	1
Pyrene	ND		ug/kg	10.6	--	1
Benzo(a)anthracene	ND		ug/kg	10.6	--	1
Chrysene	ND		ug/kg	10.6	--	1
Benzo(b)fluoranthene	ND		ug/kg	10.6	--	1
Benzo(k)fluoranthene	ND		ug/kg	10.6	--	1
Benzo(a)pyrene	ND		ug/kg	10.6	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	10.6	--	1
Dibenz(a,h)anthracene	ND		ug/kg	10.6	--	1
Benzo(ghi)perylene	ND		ug/kg	10.6	--	1
Cl2-BZ#8	ND		ug/kg	1.06	--	1
Cl3-BZ#18	ND		ug/kg	1.06	--	1
Cl3-BZ#28	ND		ug/kg	1.06	--	1
Cl4-BZ#44	ND		ug/kg	1.06	--	1
Cl4-BZ#49	ND		ug/kg	1.06	--	1
Cl4-BZ#52	ND		ug/kg	1.06	--	1
Cl4-BZ#66	ND		ug/kg	1.06	--	1
Cl5-BZ#87	ND		ug/kg	1.06	--	1
Cl5-BZ#101	ND		ug/kg	1.06	--	1
Cl5-BZ#105	ND		ug/kg	1.06	--	1
Cl5-BZ#118	ND		ug/kg	1.06	--	1
Cl6-BZ#128	ND		ug/kg	1.06	--	1
Cl6-BZ#138	ND		ug/kg	1.06	--	1
Cl6-BZ#153	ND		ug/kg	1.06	--	1



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-05

Date Collected: 02/24/15 13:52

Client ID: L-52

Date Received: 02/24/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
CI7-BZ#170	ND		ug/kg	1.06	--	1
CI7-BZ#180	ND		ug/kg	1.06	--	1
CI7-BZ#183	ND		ug/kg	1.06	--	1
CI7-BZ#184	ND		ug/kg	1.06	--	1
CI7-BZ#187	ND		ug/kg	1.06	--	1
CI8-BZ#195	ND		ug/kg	1.06	--	1
CI9-BZ#206	ND		ug/kg	1.06	--	1
CI10-BZ#209	ND		ug/kg	1.06	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	85		30-150
Pyrene-d10	90		30-150
Benzo(b)fluoranthene-d12	89		30-150
DBOB	89		30-150
BZ 198	83		30-150

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-06
 Client ID: L-51
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 03/06/15 02:07
 Analyst: CM
 Percent Solids: 79%

Date Collected: 02/24/15 14:20
 Date Received: 02/24/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Naphthalene	ND		ug/kg	10.6	--	1
Acenaphthylene	ND		ug/kg	10.6	--	1
Acenaphthene	ND		ug/kg	10.6	--	1
Fluorene	ND		ug/kg	10.6	--	1
Phenanthrene	ND		ug/kg	10.6	--	1
Anthracene	ND		ug/kg	10.6	--	1
Fluoranthene	ND		ug/kg	10.6	--	1
Pyrene	ND		ug/kg	10.6	--	1
Benzo(a)anthracene	ND		ug/kg	10.6	--	1
Chrysene	ND		ug/kg	10.6	--	1
Benzo(b)fluoranthene	ND		ug/kg	10.6	--	1
Benzo(k)fluoranthene	ND		ug/kg	10.6	--	1
Benzo(a)pyrene	ND		ug/kg	10.6	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	10.6	--	1
Dibenz(a,h)anthracene	ND		ug/kg	10.6	--	1
Benzo(ghi)perylene	ND		ug/kg	10.6	--	1
Cl2-BZ#8	ND		ug/kg	1.06	--	1
Cl3-BZ#18	ND		ug/kg	1.06	--	1
Cl3-BZ#28	ND		ug/kg	1.06	--	1
Cl4-BZ#44	ND		ug/kg	1.06	--	1
Cl4-BZ#49	ND		ug/kg	1.06	--	1
Cl4-BZ#52	ND		ug/kg	1.06	--	1
Cl4-BZ#66	ND		ug/kg	1.06	--	1
Cl5-BZ#87	ND		ug/kg	1.06	--	1
Cl5-BZ#101	ND		ug/kg	1.06	--	1
Cl5-BZ#105	ND		ug/kg	1.06	--	1
Cl5-BZ#118	ND		ug/kg	1.06	--	1
Cl6-BZ#128	ND		ug/kg	1.06	--	1
Cl6-BZ#138	ND		ug/kg	1.06	--	1
Cl6-BZ#153	ND		ug/kg	1.06	--	1



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-06

Date Collected: 02/24/15 14:20

Client ID: L-51

Date Received: 02/24/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
CI7-BZ#170	ND		ug/kg	1.06	--	1
CI7-BZ#180	ND		ug/kg	1.06	--	1
CI7-BZ#183	ND		ug/kg	1.06	--	1
CI7-BZ#184	ND		ug/kg	1.06	--	1
CI7-BZ#187	ND		ug/kg	1.06	--	1
CI8-BZ#195	ND		ug/kg	1.06	--	1
CI9-BZ#206	ND		ug/kg	1.06	--	1
CI10-BZ#209	ND		ug/kg	1.06	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	85		30-150
Pyrene-d10	88		30-150
Benzo(b)fluoranthene-d12	90		30-150
DBOB	94		30-150
BZ 198	86		30-150

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-07
 Client ID: L-62
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 03/06/15 03:36
 Analyst: CM
 Percent Solids: 63%

Date Collected: 02/24/15 14:35
 Date Received: 02/24/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Naphthalene	ND		ug/kg	7.86	--	1
Acenaphthylene	19.6		ug/kg	7.86	--	1
Acenaphthene	ND		ug/kg	7.86	--	1
Fluorene	ND		ug/kg	7.86	--	1
Phenanthrene	72.1		ug/kg	7.86	--	1
Anthracene	15.1		ug/kg	7.86	--	1
Fluoranthene	191		ug/kg	7.86	--	1
Pyrene	172		ug/kg	7.86	--	1
Benz(a)anthracene	93.1		ug/kg	7.86	--	1
Chrysene	113		ug/kg	7.86	--	1
Benzo(b)fluoranthene	131		ug/kg	7.86	--	1
Benzo(k)fluoranthene	96.7		ug/kg	7.86	--	1
Benzo(a)pyrene	110		ug/kg	7.86	--	1
Indeno(1,2,3-cd)Pyrene	93.3		ug/kg	7.86	--	1
Dibenz(a,h)anthracene	18.0		ug/kg	7.86	--	1
Benzo(ghi)perylene	88.7		ug/kg	7.86	--	1
Cl2-BZ#8	ND		ug/kg	0.786	--	1
Cl3-BZ#18	ND		ug/kg	0.786	--	1
Cl3-BZ#28	ND		ug/kg	0.786	--	1
Cl4-BZ#44	ND		ug/kg	0.786	--	1
Cl4-BZ#49	ND		ug/kg	0.786	--	1
Cl4-BZ#52	ND		ug/kg	0.786	--	1
Cl4-BZ#66	ND		ug/kg	0.786	--	1
Cl5-BZ#87	ND		ug/kg	0.786	--	1
Cl5-BZ#101	ND		ug/kg	0.786	--	1
Cl5-BZ#105	ND		ug/kg	0.786	--	1
Cl5-BZ#118	ND		ug/kg	0.786	--	1
Cl6-BZ#128	ND		ug/kg	0.786	--	1
Cl6-BZ#138	0.978		ug/kg	0.786	--	1
Cl6-BZ#153	ND		ug/kg	0.786	--	1



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-07

Date Collected: 02/24/15 14:35

Client ID: L-62

Date Received: 02/24/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
CI7-BZ#170	ND		ug/kg	0.786	--	1
CI7-BZ#180	ND		ug/kg	0.786	--	1
CI7-BZ#183	ND		ug/kg	0.786	--	1
CI7-BZ#184	ND		ug/kg	0.786	--	1
CI7-BZ#187	ND		ug/kg	0.786	--	1
CI8-BZ#195	ND		ug/kg	0.786	--	1
CI9-BZ#206	ND		ug/kg	0.786	--	1
CI10-BZ#209	ND		ug/kg	0.786	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	84		30-150
Pyrene-d10	87		30-150
Benzo(b)fluoranthene-d12	86		30-150
DBOB	89		30-150
BZ 198	89		30-150

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-08
 Client ID: L41
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 03/06/15 06:53
 Analyst: CM
 Percent Solids: 75%

Date Collected: 02/25/15 09:33
 Date Received: 02/26/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Naphthalene	ND		ug/kg	13.2	--	1
Acenaphthylene	ND		ug/kg	13.2	--	1
Acenaphthene	ND		ug/kg	13.2	--	1
Fluorene	ND		ug/kg	13.2	--	1
Phenanthrene	ND		ug/kg	13.2	--	1
Anthracene	ND		ug/kg	13.2	--	1
Fluoranthene	ND		ug/kg	13.2	--	1
Pyrene	ND		ug/kg	13.2	--	1
Benzo(a)anthracene	ND		ug/kg	13.2	--	1
Chrysene	ND		ug/kg	13.2	--	1
Benzo(b)fluoranthene	ND		ug/kg	13.2	--	1
Benzo(k)fluoranthene	ND		ug/kg	13.2	--	1
Benzo(a)pyrene	ND		ug/kg	13.2	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	13.2	--	1
Dibenz(a,h)anthracene	ND		ug/kg	13.2	--	1
Benzo(ghi)perylene	ND		ug/kg	13.2	--	1
Cl2-BZ#8	ND		ug/kg	1.32	--	1
Cl3-BZ#18	ND		ug/kg	1.32	--	1
Cl3-BZ#28	ND		ug/kg	1.32	--	1
Cl4-BZ#44	ND		ug/kg	1.32	--	1
Cl4-BZ#49	ND		ug/kg	1.32	--	1
Cl4-BZ#52	ND		ug/kg	1.32	--	1
Cl4-BZ#66	ND		ug/kg	1.32	--	1
Cl5-BZ#87	ND		ug/kg	1.32	--	1
Cl5-BZ#101	ND		ug/kg	1.32	--	1
Cl5-BZ#105	ND		ug/kg	1.32	--	1
Cl5-BZ#118	ND		ug/kg	1.32	--	1
Cl6-BZ#128	ND		ug/kg	1.32	--	1
Cl6-BZ#138	ND		ug/kg	1.32	--	1
Cl6-BZ#153	ND		ug/kg	1.32	--	1



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-08

Date Collected: 02/25/15 09:33

Client ID: L41

Date Received: 02/26/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
CI7-BZ#170	ND		ug/kg	1.32	--	1
CI7-BZ#180	ND		ug/kg	1.32	--	1
CI7-BZ#183	ND		ug/kg	1.32	--	1
CI7-BZ#184	ND		ug/kg	1.32	--	1
CI7-BZ#187	ND		ug/kg	1.32	--	1
CI8-BZ#195	ND		ug/kg	1.32	--	1
CI9-BZ#206	ND		ug/kg	1.32	--	1
CI10-BZ#209	ND		ug/kg	1.32	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	83		30-150
Pyrene-d10	87		30-150
Benzo(b)fluoranthene-d12	86		30-150
DBOB	90		30-150
BZ 198	87		30-150

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-09
 Client ID: L32
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 03/06/15 07:26
 Analyst: CM
 Percent Solids: 78%

Date Collected: 02/25/15 10:05
 Date Received: 02/26/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Naphthalene	ND		ug/kg	12.3	--	1
Acenaphthylene	ND		ug/kg	12.3	--	1
Acenaphthene	ND		ug/kg	12.3	--	1
Fluorene	ND		ug/kg	12.3	--	1
Phenanthrene	ND		ug/kg	12.3	--	1
Anthracene	ND		ug/kg	12.3	--	1
Fluoranthene	ND		ug/kg	12.3	--	1
Pyrene	ND		ug/kg	12.3	--	1
Benzo(a)anthracene	ND		ug/kg	12.3	--	1
Chrysene	ND		ug/kg	12.3	--	1
Benzo(b)fluoranthene	ND		ug/kg	12.3	--	1
Benzo(k)fluoranthene	ND		ug/kg	12.3	--	1
Benzo(a)pyrene	ND		ug/kg	12.3	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	12.3	--	1
Dibenz(a,h)anthracene	ND		ug/kg	12.3	--	1
Benzo(ghi)perylene	ND		ug/kg	12.3	--	1
Cl2-BZ#8	ND		ug/kg	1.23	--	1
Cl3-BZ#18	ND		ug/kg	1.23	--	1
Cl3-BZ#28	ND		ug/kg	1.23	--	1
Cl4-BZ#44	ND		ug/kg	1.23	--	1
Cl4-BZ#49	ND		ug/kg	1.23	--	1
Cl4-BZ#52	ND		ug/kg	1.23	--	1
Cl4-BZ#66	ND		ug/kg	1.23	--	1
Cl5-BZ#87	ND		ug/kg	1.23	--	1
Cl5-BZ#101	ND		ug/kg	1.23	--	1
Cl5-BZ#105	ND		ug/kg	1.23	--	1
Cl5-BZ#118	ND		ug/kg	1.23	--	1
Cl6-BZ#128	ND		ug/kg	1.23	--	1
Cl6-BZ#138	ND		ug/kg	1.23	--	1
Cl6-BZ#153	ND		ug/kg	1.23	--	1



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-09

Date Collected: 02/25/15 10:05

Client ID: L32

Date Received: 02/26/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
CI7-BZ#170	ND		ug/kg	1.23	--	1
CI7-BZ#180	ND		ug/kg	1.23	--	1
CI7-BZ#183	ND		ug/kg	1.23	--	1
CI7-BZ#184	ND		ug/kg	1.23	--	1
CI7-BZ#187	ND		ug/kg	1.23	--	1
CI8-BZ#195	ND		ug/kg	1.23	--	1
CI9-BZ#206	ND		ug/kg	1.23	--	1
CI10-BZ#209	ND		ug/kg	1.23	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	81		30-150
Pyrene-d10	85		30-150
Benzo(b)fluoranthene-d12	86		30-150
DBOB	94		30-150
BZ 198	86		30-150

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-10
 Client ID: L35
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 03/06/15 07:59
 Analyst: CM
 Percent Solids: 74%

Date Collected: 02/25/15 10:19
 Date Received: 02/26/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Naphthalene	ND		ug/kg	13.0	--	1
Acenaphthylene	ND		ug/kg	13.0	--	1
Acenaphthene	ND		ug/kg	13.0	--	1
Fluorene	ND		ug/kg	13.0	--	1
Phenanthrene	ND		ug/kg	13.0	--	1
Anthracene	ND		ug/kg	13.0	--	1
Fluoranthene	ND		ug/kg	13.0	--	1
Pyrene	ND		ug/kg	13.0	--	1
Benz(a)anthracene	ND		ug/kg	13.0	--	1
Chrysene	ND		ug/kg	13.0	--	1
Benzo(b)fluoranthene	ND		ug/kg	13.0	--	1
Benzo(k)fluoranthene	ND		ug/kg	13.0	--	1
Benzo(a)pyrene	ND		ug/kg	13.0	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	13.0	--	1
Dibenz(a,h)anthracene	ND		ug/kg	13.0	--	1
Benzo(ghi)perylene	ND		ug/kg	13.0	--	1
Cl2-BZ#8	ND		ug/kg	1.30	--	1
Cl3-BZ#18	ND		ug/kg	1.30	--	1
Cl3-BZ#28	ND		ug/kg	1.30	--	1
Cl4-BZ#44	ND		ug/kg	1.30	--	1
Cl4-BZ#49	ND		ug/kg	1.30	--	1
Cl4-BZ#52	ND		ug/kg	1.30	--	1
Cl4-BZ#66	ND		ug/kg	1.30	--	1
Cl5-BZ#87	ND		ug/kg	1.30	--	1
Cl5-BZ#101	ND		ug/kg	1.30	--	1
Cl5-BZ#105	ND		ug/kg	1.30	--	1
Cl5-BZ#118	ND		ug/kg	1.30	--	1
Cl6-BZ#128	ND		ug/kg	1.30	--	1
Cl6-BZ#138	ND		ug/kg	1.30	--	1
Cl6-BZ#153	ND		ug/kg	1.30	--	1



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-10

Date Collected: 02/25/15 10:19

Client ID: L35

Date Received: 02/26/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
CI7-BZ#170	ND		ug/kg	1.30	--	1
CI7-BZ#180	ND		ug/kg	1.30	--	1
CI7-BZ#183	ND		ug/kg	1.30	--	1
CI7-BZ#184	ND		ug/kg	1.30	--	1
CI7-BZ#187	ND		ug/kg	1.30	--	1
CI8-BZ#195	ND		ug/kg	1.30	--	1
CI9-BZ#206	ND		ug/kg	1.30	--	1
CI10-BZ#209	ND		ug/kg	1.30	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	81		30-150
Pyrene-d10	86		30-150
Benzo(b)fluoranthene-d12	86		30-150
DBOB	93		30-150
BZ 198	83		30-150

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-11
 Client ID: L33
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 03/06/15 08:32
 Analyst: CM
 Percent Solids: 70%

Date Collected: 02/25/15 10:35
 Date Received: 02/26/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Naphthalene	ND		ug/kg	7.00	--	1
Acenaphthylene	ND		ug/kg	7.00	--	1
Acenaphthene	ND		ug/kg	7.00	--	1
Fluorene	ND		ug/kg	7.00	--	1
Phenanthrene	ND		ug/kg	7.00	--	1
Anthracene	ND		ug/kg	7.00	--	1
Fluoranthene	14.7		ug/kg	7.00	--	1
Pyrene	16.6		ug/kg	7.00	--	1
Benz(a)anthracene	9.76		ug/kg	7.00	--	1
Chrysene	12.4		ug/kg	7.00	--	1
Benzo(b)fluoranthene	12.3		ug/kg	7.00	--	1
Benzo(k)fluoranthene	11.7		ug/kg	7.00	--	1
Benzo(a)pyrene	12.3		ug/kg	7.00	--	1
Indeno(1,2,3-cd)Pyrene	10.4		ug/kg	7.00	--	1
Dibenz(a,h)anthracene	ND		ug/kg	7.00	--	1
Benzo(ghi)perylene	9.98		ug/kg	7.00	--	1
Cl2-BZ#8	ND		ug/kg	0.700	--	1
Cl3-BZ#18	ND		ug/kg	0.700	--	1
Cl3-BZ#28	ND		ug/kg	0.700	--	1
Cl4-BZ#44	ND		ug/kg	0.700	--	1
Cl4-BZ#49	ND		ug/kg	0.700	--	1
Cl4-BZ#52	ND		ug/kg	0.700	--	1
Cl4-BZ#66	ND		ug/kg	0.700	--	1
Cl5-BZ#87	ND		ug/kg	0.700	--	1
Cl5-BZ#101	ND		ug/kg	0.700	--	1
Cl5-BZ#105	ND		ug/kg	0.700	--	1
Cl5-BZ#118	ND		ug/kg	0.700	--	1
Cl6-BZ#128	ND		ug/kg	0.700	--	1
Cl6-BZ#138	ND		ug/kg	0.700	--	1
Cl6-BZ#153	ND		ug/kg	0.700	--	1



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-11

Date Collected: 02/25/15 10:35

Client ID: L33

Date Received: 02/26/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
CI7-BZ#170	ND		ug/kg	0.700	--	1
CI7-BZ#180	ND		ug/kg	0.700	--	1
CI7-BZ#183	ND		ug/kg	0.700	--	1
CI7-BZ#184	ND		ug/kg	0.700	--	1
CI7-BZ#187	ND		ug/kg	0.700	--	1
CI8-BZ#195	ND		ug/kg	0.700	--	1
CI9-BZ#206	ND		ug/kg	0.700	--	1
CI10-BZ#209	ND		ug/kg	0.700	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	81		30-150
Pyrene-d10	85		30-150
Benzo(b)fluoranthene-d12	84		30-150
DBOB	88		30-150
BZ 198	81		30-150

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-12
 Client ID: L31
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 03/06/15 09:05
 Analyst: CM
 Percent Solids: 74%

Date Collected: 02/25/15 11:00
 Date Received: 02/26/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Naphthalene	ND		ug/kg	12.6	--	1
Acenaphthylene	ND		ug/kg	12.6	--	1
Acenaphthene	ND		ug/kg	12.6	--	1
Fluorene	ND		ug/kg	12.6	--	1
Phenanthrene	ND		ug/kg	12.6	--	1
Anthracene	ND		ug/kg	12.6	--	1
Fluoranthene	ND		ug/kg	12.6	--	1
Pyrene	12.9		ug/kg	12.6	--	1
Benz(a)anthracene	ND		ug/kg	12.6	--	1
Chrysene	ND		ug/kg	12.6	--	1
Benzo(b)fluoranthene	ND		ug/kg	12.6	--	1
Benzo(k)fluoranthene	ND		ug/kg	12.6	--	1
Benzo(a)pyrene	ND		ug/kg	12.6	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	12.6	--	1
Dibenz(a,h)anthracene	ND		ug/kg	12.6	--	1
Benzo(ghi)perylene	ND		ug/kg	12.6	--	1
Cl2-BZ#8	ND		ug/kg	1.26	--	1
Cl3-BZ#18	ND		ug/kg	1.26	--	1
Cl3-BZ#28	ND		ug/kg	1.26	--	1
Cl4-BZ#44	ND		ug/kg	1.26	--	1
Cl4-BZ#49	ND		ug/kg	1.26	--	1
Cl4-BZ#52	ND		ug/kg	1.26	--	1
Cl4-BZ#66	ND		ug/kg	1.26	--	1
Cl5-BZ#87	ND		ug/kg	1.26	--	1
Cl5-BZ#101	ND		ug/kg	1.26	--	1
Cl5-BZ#105	ND		ug/kg	1.26	--	1
Cl5-BZ#118	ND		ug/kg	1.26	--	1
Cl6-BZ#128	ND		ug/kg	1.26	--	1
Cl6-BZ#138	ND		ug/kg	1.26	--	1
Cl6-BZ#153	ND		ug/kg	1.26	--	1



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-12

Date Collected: 02/25/15 11:00

Client ID: L31

Date Received: 02/26/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
CI7-BZ#170	ND		ug/kg	1.26	--	1
CI7-BZ#180	ND		ug/kg	1.26	--	1
CI7-BZ#183	ND		ug/kg	1.26	--	1
CI7-BZ#184	ND		ug/kg	1.26	--	1
CI7-BZ#187	ND		ug/kg	1.26	--	1
CI8-BZ#195	ND		ug/kg	1.26	--	1
CI9-BZ#206	ND		ug/kg	1.26	--	1
CI10-BZ#209	ND		ug/kg	1.26	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	82		30-150
Pyrene-d10	85		30-150
Benzo(b)fluoranthene-d12	85		30-150
DBOB	90		30-150
BZ 198	85		30-150

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-13
 Client ID: L34
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 03/06/15 09:39
 Analyst: CM
 Percent Solids: 77%

Date Collected: 02/25/15 11:19
 Date Received: 02/26/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/09/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Naphthalene	ND		ug/kg	11.2	--	1
Acenaphthylene	ND		ug/kg	11.2	--	1
Acenaphthene	ND		ug/kg	11.2	--	1
Fluorene	ND		ug/kg	11.2	--	1
Phenanthrene	ND		ug/kg	11.2	--	1
Anthracene	ND		ug/kg	11.2	--	1
Fluoranthene	ND		ug/kg	11.2	--	1
Pyrene	ND		ug/kg	11.2	--	1
Benz(a)anthracene	ND		ug/kg	11.2	--	1
Chrysene	ND		ug/kg	11.2	--	1
Benzo(b)fluoranthene	ND		ug/kg	11.2	--	1
Benzo(k)fluoranthene	ND		ug/kg	11.2	--	1
Benzo(a)pyrene	ND		ug/kg	11.2	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	11.2	--	1
Dibenz(a,h)anthracene	ND		ug/kg	11.2	--	1
Benzo(ghi)perylene	ND		ug/kg	11.2	--	1
Cl2-BZ#8	ND		ug/kg	1.12	--	1
Cl3-BZ#18	ND		ug/kg	1.12	--	1
Cl3-BZ#28	ND		ug/kg	1.12	--	1
Cl4-BZ#44	ND		ug/kg	1.12	--	1
Cl4-BZ#49	ND		ug/kg	1.12	--	1
Cl4-BZ#52	ND		ug/kg	1.12	--	1
Cl4-BZ#66	ND		ug/kg	1.12	--	1
Cl5-BZ#87	ND		ug/kg	1.12	--	1
Cl5-BZ#101	ND		ug/kg	1.12	--	1
Cl5-BZ#105	ND		ug/kg	1.12	--	1
Cl5-BZ#118	ND		ug/kg	1.12	--	1
Cl6-BZ#128	ND		ug/kg	1.12	--	1
Cl6-BZ#138	ND		ug/kg	1.12	--	1
Cl6-BZ#153	ND		ug/kg	1.12	--	1



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-13

Date Collected: 02/25/15 11:19

Client ID: L34

Date Received: 02/26/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
CI7-BZ#170	ND		ug/kg	1.12	--	1
CI7-BZ#180	ND		ug/kg	1.12	--	1
CI7-BZ#183	ND		ug/kg	1.12	--	1
CI7-BZ#184	ND		ug/kg	1.12	--	1
CI7-BZ#187	ND		ug/kg	1.12	--	1
CI8-BZ#195	ND		ug/kg	1.12	--	1
CI9-BZ#206	ND		ug/kg	1.12	--	1
CI10-BZ#209	ND		ug/kg	1.12	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	84		30-150
Pyrene-d10	87		30-150
Benzo(b)fluoranthene-d12	87		30-150
DBOB	91		30-150
BZ 198	83		30-150

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-14
 Client ID: L36
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 03/06/15 10:12
 Analyst: CM
 Percent Solids: 75%

Date Collected: 02/25/15 11:35
 Date Received: 02/26/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Naphthalene	ND		ug/kg	13.1	--	1
Acenaphthylene	ND		ug/kg	13.1	--	1
Acenaphthene	ND		ug/kg	13.1	--	1
Fluorene	ND		ug/kg	13.1	--	1
Phenanthrene	ND		ug/kg	13.1	--	1
Anthracene	ND		ug/kg	13.1	--	1
Fluoranthene	13.1		ug/kg	13.1	--	1
Pyrene	15.4		ug/kg	13.1	--	1
Benz(a)anthracene	ND		ug/kg	13.1	--	1
Chrysene	ND		ug/kg	13.1	--	1
Benzo(b)fluoranthene	ND		ug/kg	13.1	--	1
Benzo(k)fluoranthene	ND		ug/kg	13.1	--	1
Benzo(a)pyrene	ND		ug/kg	13.1	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	13.1	--	1
Dibenz(a,h)anthracene	ND		ug/kg	13.1	--	1
Benzo(ghi)perylene	ND		ug/kg	13.1	--	1
Cl2-BZ#8	ND		ug/kg	1.31	--	1
Cl3-BZ#18	ND		ug/kg	1.31	--	1
Cl3-BZ#28	ND		ug/kg	1.31	--	1
Cl4-BZ#44	ND		ug/kg	1.31	--	1
Cl4-BZ#49	ND		ug/kg	1.31	--	1
Cl4-BZ#52	ND		ug/kg	1.31	--	1
Cl4-BZ#66	ND		ug/kg	1.31	--	1
Cl5-BZ#87	ND		ug/kg	1.31	--	1
Cl5-BZ#101	ND		ug/kg	1.31	--	1
Cl5-BZ#105	ND		ug/kg	1.31	--	1
Cl5-BZ#118	ND		ug/kg	1.31	--	1
Cl6-BZ#128	ND		ug/kg	1.31	--	1
Cl6-BZ#138	ND		ug/kg	1.31	--	1
Cl6-BZ#153	ND		ug/kg	1.31	--	1



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-14

Date Collected: 02/25/15 11:35

Client ID: L36

Date Received: 02/26/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
CI7-BZ#170	ND		ug/kg	1.31	--	1
CI7-BZ#180	ND		ug/kg	1.31	--	1
CI7-BZ#183	ND		ug/kg	1.31	--	1
CI7-BZ#184	ND		ug/kg	1.31	--	1
CI7-BZ#187	ND		ug/kg	1.31	--	1
CI8-BZ#195	ND		ug/kg	1.31	--	1
CI9-BZ#206	ND		ug/kg	1.31	--	1
CI10-BZ#209	ND		ug/kg	1.31	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	83		30-150
Pyrene-d10	86		30-150
Benzo(b)fluoranthene-d12	86		30-150
DBOB	89		30-150
BZ 198	83		30-150

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-15
 Client ID: L37
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 03/06/15 10:45
 Analyst: CM
 Percent Solids: 71%

Date Collected: 02/25/15 12:36
 Date Received: 02/26/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Naphthalene	ND		ug/kg	13.5	--	1
Acenaphthylene	ND		ug/kg	13.5	--	1
Acenaphthene	ND		ug/kg	13.5	--	1
Fluorene	ND		ug/kg	13.5	--	1
Phenanthrene	23.3		ug/kg	13.5	--	1
Anthracene	44.6		ug/kg	13.5	--	1
Fluoranthene	93.1		ug/kg	13.5	--	1
Pyrene	130		ug/kg	13.5	--	1
Benzo(a)anthracene	87.8		ug/kg	13.5	--	1
Chrysene	88.4		ug/kg	13.5	--	1
Benzo(b)fluoranthene	44.4		ug/kg	13.5	--	1
Benzo(k)fluoranthene	60.6		ug/kg	13.5	--	1
Benzo(a)pyrene	74.1		ug/kg	13.5	--	1
Indeno(1,2,3-cd)Pyrene	35.9		ug/kg	13.5	--	1
Dibenz(a,h)anthracene	ND		ug/kg	13.5	--	1
Benzo(ghi)perylene	33.2		ug/kg	13.5	--	1
Cl2-BZ#8	ND		ug/kg	1.35	--	1
Cl3-BZ#18	ND		ug/kg	1.35	--	1
Cl3-BZ#28	ND		ug/kg	1.35	--	1
Cl4-BZ#44	ND		ug/kg	1.35	--	1
Cl4-BZ#49	ND		ug/kg	1.35	--	1
Cl4-BZ#52	ND		ug/kg	1.35	--	1
Cl4-BZ#66	ND		ug/kg	1.35	--	1
Cl5-BZ#87	ND		ug/kg	1.35	--	1
Cl5-BZ#101	ND		ug/kg	1.35	--	1
Cl5-BZ#105	ND		ug/kg	1.35	--	1
Cl5-BZ#118	ND		ug/kg	1.35	--	1
Cl6-BZ#128	ND		ug/kg	1.35	--	1
Cl6-BZ#138	ND		ug/kg	1.35	--	1
Cl6-BZ#153	ND		ug/kg	1.35	--	1



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-15

Date Collected: 02/25/15 12:36

Client ID: L37

Date Received: 02/26/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
CI7-BZ#170	ND		ug/kg	1.35	--	1
CI7-BZ#180	ND		ug/kg	1.35	--	1
CI7-BZ#183	ND		ug/kg	1.35	--	1
CI7-BZ#184	ND		ug/kg	1.35	--	1
CI7-BZ#187	ND		ug/kg	1.35	--	1
CI8-BZ#195	ND		ug/kg	1.35	--	1
CI9-BZ#206	ND		ug/kg	1.35	--	1
CI10-BZ#209	ND		ug/kg	1.35	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	84		30-150
Pyrene-d10	87		30-150
Benzo(b)fluoranthene-d12	87		30-150
DBOB	91		30-150
BZ 198	84		30-150

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-16
 Client ID: L38
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 03/06/15 11:18
 Analyst: CM
 Percent Solids: 73%

Date Collected: 02/25/15 13:06
 Date Received: 02/26/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Naphthalene	ND		ug/kg	13.4	--	1
Acenaphthylene	ND		ug/kg	13.4	--	1
Acenaphthene	ND		ug/kg	13.4	--	1
Fluorene	ND		ug/kg	13.4	--	1
Phenanthrene	ND		ug/kg	13.4	--	1
Anthracene	ND		ug/kg	13.4	--	1
Fluoranthene	ND		ug/kg	13.4	--	1
Pyrene	ND		ug/kg	13.4	--	1
Benzo(a)anthracene	ND		ug/kg	13.4	--	1
Chrysene	ND		ug/kg	13.4	--	1
Benzo(b)fluoranthene	ND		ug/kg	13.4	--	1
Benzo(k)fluoranthene	ND		ug/kg	13.4	--	1
Benzo(a)pyrene	ND		ug/kg	13.4	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	13.4	--	1
Dibenz(a,h)anthracene	ND		ug/kg	13.4	--	1
Benzo(ghi)perylene	ND		ug/kg	13.4	--	1
Cl2-BZ#8	ND		ug/kg	1.34	--	1
Cl3-BZ#18	ND		ug/kg	1.34	--	1
Cl3-BZ#28	ND		ug/kg	1.34	--	1
Cl4-BZ#44	ND		ug/kg	1.34	--	1
Cl4-BZ#49	ND		ug/kg	1.34	--	1
Cl4-BZ#52	ND		ug/kg	1.34	--	1
Cl4-BZ#66	ND		ug/kg	1.34	--	1
Cl5-BZ#87	ND		ug/kg	1.34	--	1
Cl5-BZ#101	ND		ug/kg	1.34	--	1
Cl5-BZ#105	ND		ug/kg	1.34	--	1
Cl5-BZ#118	ND		ug/kg	1.34	--	1
Cl6-BZ#128	ND		ug/kg	1.34	--	1
Cl6-BZ#138	ND		ug/kg	1.34	--	1
Cl6-BZ#153	ND		ug/kg	1.34	--	1



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-16

Date Collected: 02/25/15 13:06

Client ID: L38

Date Received: 02/26/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
CI7-BZ#170	ND		ug/kg	1.34	--	1
CI7-BZ#180	ND		ug/kg	1.34	--	1
CI7-BZ#183	ND		ug/kg	1.34	--	1
CI7-BZ#184	ND		ug/kg	1.34	--	1
CI7-BZ#187	ND		ug/kg	1.34	--	1
CI8-BZ#195	ND		ug/kg	1.34	--	1
CI9-BZ#206	ND		ug/kg	1.34	--	1
CI10-BZ#209	ND		ug/kg	1.34	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	75		30-150
Pyrene-d10	80		30-150
Benzo(b)fluoranthene-d12	79		30-150
DBOB	83		30-150
BZ 198	80		30-150

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-17
 Client ID: L40
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 03/06/15 11:50
 Analyst: CM
 Percent Solids: 66%

Date Collected: 02/25/15 13:30
 Date Received: 02/26/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Naphthalene	ND		ug/kg	7.26	--	1
Acenaphthylene	ND		ug/kg	7.26	--	1
Acenaphthene	ND		ug/kg	7.26	--	1
Fluorene	ND		ug/kg	7.26	--	1
Phenanthrene	ND		ug/kg	7.26	--	1
Anthracene	ND		ug/kg	7.26	--	1
Fluoranthene	8.06		ug/kg	7.26	--	1
Pyrene	9.45		ug/kg	7.26	--	1
Benzo(a)anthracene	ND		ug/kg	7.26	--	1
Chrysene	7.92		ug/kg	7.26	--	1
Benzo(b)fluoranthene	ND		ug/kg	7.26	--	1
Benzo(k)fluoranthene	ND		ug/kg	7.26	--	1
Benzo(a)pyrene	ND		ug/kg	7.26	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	7.26	--	1
Dibenz(a,h)anthracene	ND		ug/kg	7.26	--	1
Benzo(ghi)perylene	ND		ug/kg	7.26	--	1
Cl2-BZ#8	ND		ug/kg	0.726	--	1
Cl3-BZ#18	ND		ug/kg	0.726	--	1
Cl3-BZ#28	ND		ug/kg	0.726	--	1
Cl4-BZ#44	ND		ug/kg	0.726	--	1
Cl4-BZ#49	ND		ug/kg	0.726	--	1
Cl4-BZ#52	ND		ug/kg	0.726	--	1
Cl4-BZ#66	ND		ug/kg	0.726	--	1
Cl5-BZ#87	ND		ug/kg	0.726	--	1
Cl5-BZ#101	ND		ug/kg	0.726	--	1
Cl5-BZ#105	ND		ug/kg	0.726	--	1
Cl5-BZ#118	ND		ug/kg	0.726	--	1
Cl6-BZ#128	ND		ug/kg	0.726	--	1
Cl6-BZ#138	ND		ug/kg	0.726	--	1
Cl6-BZ#153	ND		ug/kg	0.726	--	1



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-17

Date Collected: 02/25/15 13:30

Client ID: L40

Date Received: 02/26/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
CI7-BZ#170	ND		ug/kg	0.726	--	1
CI7-BZ#180	ND		ug/kg	0.726	--	1
CI7-BZ#183	ND		ug/kg	0.726	--	1
CI7-BZ#184	ND		ug/kg	0.726	--	1
CI7-BZ#187	ND		ug/kg	0.726	--	1
CI8-BZ#195	ND		ug/kg	0.726	--	1
CI9-BZ#206	ND		ug/kg	0.726	--	1
CI10-BZ#209	ND		ug/kg	0.726	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	76		30-150
Pyrene-d10	80		30-150
Benzo(b)fluoranthene-d12	78		30-150
DBOB	85		30-150
BZ 198	76		30-150

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-18
 Client ID: L39
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 03/06/15 12:23
 Analyst: CM
 Percent Solids: 71%

Date Collected: 02/25/15 13:45
 Date Received: 02/26/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Naphthalene	ND		ug/kg	14.1	--	1
Acenaphthylene	ND		ug/kg	14.1	--	1
Acenaphthene	ND		ug/kg	14.1	--	1
Fluorene	ND		ug/kg	14.1	--	1
Phenanthrene	ND		ug/kg	14.1	--	1
Anthracene	ND		ug/kg	14.1	--	1
Fluoranthene	ND		ug/kg	14.1	--	1
Pyrene	15.2		ug/kg	14.1	--	1
Benz(a)anthracene	ND		ug/kg	14.1	--	1
Chrysene	ND		ug/kg	14.1	--	1
Benzo(b)fluoranthene	ND		ug/kg	14.1	--	1
Benzo(k)fluoranthene	ND		ug/kg	14.1	--	1
Benzo(a)pyrene	ND		ug/kg	14.1	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	14.1	--	1
Dibenz(a,h)anthracene	ND		ug/kg	14.1	--	1
Benzo(ghi)perylene	ND		ug/kg	14.1	--	1
Cl2-BZ#8	ND		ug/kg	1.41	--	1
Cl3-BZ#18	ND		ug/kg	1.41	--	1
Cl3-BZ#28	ND		ug/kg	1.41	--	1
Cl4-BZ#44	ND		ug/kg	1.41	--	1
Cl4-BZ#49	ND		ug/kg	1.41	--	1
Cl4-BZ#52	ND		ug/kg	1.41	--	1
Cl4-BZ#66	ND		ug/kg	1.41	--	1
Cl5-BZ#87	ND		ug/kg	1.41	--	1
Cl5-BZ#101	ND		ug/kg	1.41	--	1
Cl5-BZ#105	ND		ug/kg	1.41	--	1
Cl5-BZ#118	ND		ug/kg	1.41	--	1
Cl6-BZ#128	ND		ug/kg	1.41	--	1
Cl6-BZ#138	ND		ug/kg	1.41	--	1
Cl6-BZ#153	ND		ug/kg	1.41	--	1



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-18

Date Collected: 02/25/15 13:45

Client ID: L39

Date Received: 02/26/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
CI7-BZ#170	ND		ug/kg	1.41	--	1
CI7-BZ#180	ND		ug/kg	1.41	--	1
CI7-BZ#183	ND		ug/kg	1.41	--	1
CI7-BZ#184	ND		ug/kg	1.41	--	1
CI7-BZ#187	ND		ug/kg	1.41	--	1
CI8-BZ#195	ND		ug/kg	1.41	--	1
CI9-BZ#206	ND		ug/kg	1.41	--	1
CI10-BZ#209	ND		ug/kg	1.41	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	79		30-150
Pyrene-d10	84		30-150
Benzo(b)fluoranthene-d12	83		30-150
DBOB	87		30-150
BZ 198	83		30-150



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-19
 Client ID: L26A
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 03/06/15 12:56
 Analyst: CM
 Percent Solids: 65%

Date Collected: 02/25/15 14:24
 Date Received: 02/26/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Naphthalene	ND		ug/kg	7.18	--	1
Acenaphthylene	ND		ug/kg	7.18	--	1
Acenaphthene	ND		ug/kg	7.18	--	1
Fluorene	ND		ug/kg	7.18	--	1
Phenanthrene	10.2		ug/kg	7.18	--	1
Anthracene	ND		ug/kg	7.18	--	1
Fluoranthene	26.5		ug/kg	7.18	--	1
Pyrene	27.8		ug/kg	7.18	--	1
Benzo(a)anthracene	15.3		ug/kg	7.18	--	1
Chrysene	20.6		ug/kg	7.18	--	1
Benzo(b)fluoranthene	18.3		ug/kg	7.18	--	1
Benzo(k)fluoranthene	21.0		ug/kg	7.18	--	1
Benzo(a)pyrene	19.2		ug/kg	7.18	--	1
Indeno(1,2,3-cd)Pyrene	15.8		ug/kg	7.18	--	1
Dibenz(a,h)anthracene	ND		ug/kg	7.18	--	1
Benzo(ghi)perylene	15.2		ug/kg	7.18	--	1
Cl2-BZ#8	ND		ug/kg	0.718	--	1
Cl3-BZ#18	ND		ug/kg	0.718	--	1
Cl3-BZ#28	ND		ug/kg	0.718	--	1
Cl4-BZ#44	ND		ug/kg	0.718	--	1
Cl4-BZ#49	ND		ug/kg	0.718	--	1
Cl4-BZ#52	ND		ug/kg	0.718	--	1
Cl4-BZ#66	ND		ug/kg	0.718	--	1
Cl5-BZ#87	ND		ug/kg	0.718	--	1
Cl5-BZ#101	ND		ug/kg	0.718	--	1
Cl5-BZ#105	ND		ug/kg	0.718	--	1
Cl5-BZ#118	ND		ug/kg	0.718	--	1
Cl6-BZ#128	ND		ug/kg	0.718	--	1
Cl6-BZ#138	ND		ug/kg	0.718	--	1
Cl6-BZ#153	ND		ug/kg	0.718	--	1



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-19

Date Collected: 02/25/15 14:24

Client ID: L26A

Date Received: 02/26/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
CI7-BZ#170	ND		ug/kg	0.718	--	1
CI7-BZ#180	ND		ug/kg	0.718	--	1
CI7-BZ#183	ND		ug/kg	0.718	--	1
CI7-BZ#184	ND		ug/kg	0.718	--	1
CI7-BZ#187	ND		ug/kg	0.718	--	1
CI8-BZ#195	ND		ug/kg	0.718	--	1
CI9-BZ#206	ND		ug/kg	0.718	--	1
CI10-BZ#209	ND		ug/kg	0.718	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	74		30-150
Pyrene-d10	78		30-150
Benzo(b)fluoranthene-d12	78		30-150
DBOB	81		30-150
BZ 198	75		30-150

Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-20
Client ID: L26B
Sample Location: EASTERN LONG ISLAND SOUND
Matrix: Sediment
Analytical Method: 105,8270D-SIM/680(M)
Analytical Date: 03/06/15 13:29
Analyst: CM
Percent Solids: 67%

Date Collected: 02/25/15 14:30
Date Received: 02/26/15
Field Prep: Not Specified
Extraction Method: EPA 3570
Extraction Date: 03/04/15 09:30
Cleanup Method: EPA 3630
Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
Naphthalene	ND		ug/kg	7.09	--	1
Acenaphthylene	ND		ug/kg	7.09	--	1
Acenaphthene	ND		ug/kg	7.09	--	1
Fluorene	ND		ug/kg	7.09	--	1
Phenanthrene	13.2		ug/kg	7.09	--	1
Anthracene	ND		ug/kg	7.09	--	1
Fluoranthene	12.9		ug/kg	7.09	--	1
Pyrene	13.3		ug/kg	7.09	--	1
Benz(a)anthracene	ND		ug/kg	7.09	--	1
Chrysene	8.46		ug/kg	7.09	--	1
Benzo(b)fluoranthene	8.80		ug/kg	7.09	--	1
Benzo(k)fluoranthene	ND		ug/kg	7.09	--	1
Benzo(a)pyrene	7.20		ug/kg	7.09	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	7.09	--	1
Dibenz(a,h)anthracene	ND		ug/kg	7.09	--	1
Benzo(ghi)perylene	ND		ug/kg	7.09	--	1
Cl2-BZ#8	ND		ug/kg	0.709	--	1
Cl3-BZ#18	ND		ug/kg	0.709	--	1
Cl3-BZ#28	ND		ug/kg	0.709	--	1
Cl4-BZ#44	ND		ug/kg	0.709	--	1
Cl4-BZ#49	ND		ug/kg	0.709	--	1
Cl4-BZ#52	ND		ug/kg	0.709	--	1
Cl4-BZ#66	ND		ug/kg	0.709	--	1
Cl5-BZ#87	ND		ug/kg	0.709	--	1
Cl5-BZ#101	ND		ug/kg	0.709	--	1
Cl5-BZ#105	ND		ug/kg	0.709	--	1
Cl5-BZ#118	ND		ug/kg	0.709	--	1
Cl6-BZ#128	ND		ug/kg	0.709	--	1
Cl6-BZ#138	ND		ug/kg	0.709	--	1
Cl6-BZ#153	ND		ug/kg	0.709	--	1



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-20

Date Collected: 02/25/15 14:30

Client ID: L26B

Date Received: 02/26/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab						
CI7-BZ#170	ND		ug/kg	0.709	--	1
CI7-BZ#180	ND		ug/kg	0.709	--	1
CI7-BZ#183	ND		ug/kg	0.709	--	1
CI7-BZ#184	ND		ug/kg	0.709	--	1
CI7-BZ#187	ND		ug/kg	0.709	--	1
CI8-BZ#195	ND		ug/kg	0.709	--	1
CI9-BZ#206	ND		ug/kg	0.709	--	1
CI10-BZ#209	ND		ug/kg	0.709	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	72		30-150
Pyrene-d10	76		30-150
Benzo(b)fluoranthene-d12	76		30-150
DBOB	76		30-150
BZ 198	71		30-150

Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 105,8270D-SIM/680(M)
Analytical Date: 03/05/15 20:38
Analyst: CM

Extraction Method: EPA 3570
Extraction Date: 03/04/15 09:30
Cleanup Method: EPA 3630
Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab for sample(s): 01-20 Batch: WG766025-1					
Naphthalene	ND		ug/kg	5.00	--
Acenaphthylene	ND		ug/kg	5.00	--
Acenaphthene	ND		ug/kg	5.00	--
Fluorene	ND		ug/kg	5.00	--
Phenanthrene	ND		ug/kg	5.00	--
Anthracene	ND		ug/kg	5.00	--
Fluoranthene	ND		ug/kg	5.00	--
Pyrene	ND		ug/kg	5.00	--
Benz(a)anthracene	ND		ug/kg	5.00	--
Chrysene	ND		ug/kg	5.00	--
Benzo(b)fluoranthene	ND		ug/kg	5.00	--
Benzo(k)fluoranthene	ND		ug/kg	5.00	--
Benzo(a)pyrene	ND		ug/kg	5.00	--
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	5.00	--
Dibenz(a,h)anthracene	ND		ug/kg	5.00	--
Benzo(ghi)perylene	ND		ug/kg	5.00	--
C12-BZ#8	ND		ug/kg	0.500	--
C13-BZ#18	ND		ug/kg	0.500	--
C13-BZ#28	ND		ug/kg	0.500	--
C14-BZ#44	ND		ug/kg	0.500	--
C14-BZ#49	ND		ug/kg	0.500	--
C14-BZ#52	ND		ug/kg	0.500	--
C14-BZ#66	ND		ug/kg	0.500	--
C15-BZ#87	ND		ug/kg	0.500	--
C15-BZ#101	ND		ug/kg	0.500	--
C15-BZ#105	ND		ug/kg	0.500	--
C15-BZ#118	ND		ug/kg	0.500	--
C16-BZ#128	ND		ug/kg	0.500	--
C16-BZ#138	ND		ug/kg	0.500	--



Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 105,8270D-SIM/680(M)
Analytical Date: 03/05/15 20:38
Analyst: CM

Extraction Method: EPA 3570
Extraction Date: 03/04/15 09:30
Cleanup Method: EPA 3630
Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab for sample(s): 01-20 Batch: WG766025-1					
Cl6-BZ#153	ND		ug/kg	0.500	--
Cl7-BZ#170	ND		ug/kg	0.500	--
Cl7-BZ#180	ND		ug/kg	0.500	--
Cl7-BZ#183	ND		ug/kg	0.500	--
Cl7-BZ#184	ND		ug/kg	0.500	--
Cl7-BZ#187	ND		ug/kg	0.500	--
Cl8-BZ#195	ND		ug/kg	0.500	--
Cl9-BZ#206	ND		ug/kg	0.500	--
Cl10-BZ#209	ND		ug/kg	0.500	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	84		30-150
Pyrene-d10	90		30-150
Benzo(b)fluoranthene-d12	92		30-150
DBOB	97		30-150
BZ 198	91		30-150



Lab Control Sample Analysis

Batch Quality Control

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab Associated sample(s): 01-20 Batch: WG766025-2 WG766025-3								
Naphthalene	88		84		50-120	5		30
Acenaphthylene	87		82		50-120	6		30
Acenaphthene	88		84		50-120	5		30
Fluorene	88		83		50-120	6		30
Phenanthrene	93		91		50-120	2		30
Anthracene	83		76		50-120	9		30
Fluoranthene	90		88		50-120	2		30
Pyrene	86		85		50-120	1		30
Benz(a)anthracene	90		90		50-120	0		30
Chrysene	88		87		50-120	1		30
Benzo(b)fluoranthene	96		97		50-120	1		30
Benzo(k)fluoranthene	97		94		50-120	3		30
Benzo(a)pyrene	86		82		50-120	5		30
Indeno(1,2,3-cd)Pyrene	90		91		50-120	1		30
Dibenz(a,h)anthracene	91		91		50-120	0		30
Benzo(ghi)perylene	89		90		50-120	1		30

Lab Control Sample Analysis Batch Quality Control

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
-----------	-------------------------	-------------	--------------------------	-------------	----------------------------	------------	-------------	----------------------

RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab Associated sample(s): 01-20 Batch: WG766025-2 WG766025-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>
2-Methylnaphthalene-d10	85		82		30-150
Pyrene-d10	88		87		30-150
Benzo(b)fluoranthene-d12	89		90		30-150



Lab Control Sample Analysis

Batch Quality Control

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab Associated sample(s): 01-20 Batch: WG766025-8 WG766025-9								
Cl2-BZ#8	89		93		50-120	4		30
Cl3-BZ#18	86		88		50-120	2		30
Cl3-BZ#28	91		95		50-120	4		30
Cl4-BZ#44	91		96		50-120	5		30
Cl4-BZ#49	87		92		50-120	6		30
Cl4-BZ#52	88		92		50-120	4		30
Cl4-BZ#66	90		94		50-120	4		30
Cl5-BZ#87	91		95		50-120	4		30
Cl5-BZ#101	89		93		50-120	4		30
Cl5-BZ#105	89		94		50-120	5		30
Cl5-BZ#118	86		91		50-120	6		30
Cl6-BZ#128	88		92		50-120	4		30
Cl6-BZ#138	91		94		50-120	3		30
Cl6-BZ#153	88		92		50-120	4		30
Cl7-BZ#170	93		96		50-120	3		30
Cl7-BZ#180	87		90		50-120	3		30
Cl7-BZ#183	89		93		50-120	4		30
Cl7-BZ#184	91		95		50-120	4		30
Cl7-BZ#187	90		93		50-120	3		30
Cl8-BZ#195	86		91		50-120	6		30
Cl9-BZ#206	88		90		50-120	2		30

Lab Control Sample Analysis Batch Quality Control

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab Associated sample(s): 01-20 Batch: WG766025-8 WG766025-9								
CI10-BZ#209	84		88		50-120	5		30

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>
DBOB	90		96		30-150
BZ 198	85		89		30-150



Matrix Spike Analysis

Batch Quality Control

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG766025-10 WG766025-11 QC Sample: L1503503-07 Client ID: L-62												
CI2-BZ#8	ND	77.7	65.9	85		68.8	88		50-120	4		30
CI3-BZ#18	ND	77.7	63.0	81		66.0	85		50-120	5		30
CI3-BZ#28	ND	77.7	67.7	87		70.4	90		50-120	4		30
CI4-BZ#44	ND	77.7	69.4	89		72.6	93		50-120	5		30
CI4-BZ#49	ND	77.7	65.8	85		68.9	88		50-120	5		30
CI4-BZ#52	ND	77.7	67.0	86		69.6	89		50-120	4		30
CI4-BZ#66	ND	77.7	69.5	90		72.1	93		50-120	4		30
CI5-BZ#87	ND	77.7	69.9	90		72.5	93		50-120	4		30
CI5-BZ#101	ND	77.7	68.7	89		71.6	92		50-120	4		30
CI5-BZ#105	ND	77.7	69.1	89		72.4	93		50-120	5		30
CI5-BZ#118	ND	77.7	67.7	87		70.8	91		50-120	4		30
CI6-BZ#128	ND	77.7	68.3	88		71.8	92		50-120	5		30
CI6-BZ#138	0.978	77.7	69.9	89		73.7	93		50-120	5		30
CI6-BZ#153	ND	77.7	69.0	89		72.0	92		50-120	4		30
CI7-BZ#170	ND	77.7	73.5	95		76.4	98		50-120	4		30
CI7-BZ#180	ND	77.7	67.9	87		70.4	90		50-120	4		30
CI7-BZ#183	ND	77.7	68.3	88		72.1	93		50-120	5		30
CI7-BZ#184	ND	77.7	69.6	90		72.7	93		50-120	4		30
CI7-BZ#187	ND	77.7	69.6	90		72.9	94		50-120	5		30
CI8-BZ#195	ND	77.7	68.7	89		72.0	92		50-120	5		30
CI9-BZ#206	ND	77.7	68.8	89		72.3	93		50-120	5		30

Matrix Spike Analysis Batch Quality Control

Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG766025-10 WG766025-11 QC Sample: L1503503-07 Client ID: L-62												
CH10-BZ#209	ND	77.7	66.8	86		70.6	91		50-120	6		30

<i>Surrogate</i>	<i>MS</i>		<i>MSD</i>		<i>Acceptance Criteria</i>
	<i>% Recovery</i>	<i>Qualifier</i>	<i>% Recovery</i>	<i>Qualifier</i>	
BZ 198	92		95		30-150
DBOB	92		94		30-150



Matrix Spike Analysis Batch Quality Control

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG766025-4 WG766025-5 QC Sample: L1503503-07 Client ID: L-62												
Naphthalene	ND	384	302	79		321	83		50-120	6		30
Acenaphthylene	19.6	384	297	72		317	77		50-120	7		30
Acenaphthene	ND	384	295	77		316	82		50-120	7		30
Fluorene	ND	384	299	78		321	83		50-120	7		30
Phenanthrene	72.1	384	362	76		384	81		50-120	6		30
Anthracene	15.1	384	298	74		314	77		50-120	5		30
Fluoranthene	191	384	444	66		462	70		50-120	4		30
Pyrene	172	384	420	65		435	68		50-120	4		30
Benz(a)anthracene	93.1	384	368	72		398	79		50-120	8		30
Chrysene	113	384	371	67		398	74		50-120	7		30
Benzo(b)fluoranthene	131	384	417	75		436	79		50-120	4		30
Benzo(k)fluoranthene	96.7	384	359	68		396	77		50-120	10		30
Benzo(a)pyrene	110	384	381	71		411	78		50-120	8		30
Indeno(1,2,3-cd)Pyrene	93.3	384	374	73		395	78		50-120	5		30
Dibenz(a,h)anthracene	18.0	384	322	79		347	85		50-120	7		30
Benzo(ghi)perylene	88.7	384	354	69		379	75		50-120	7		30

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
2-Methylnaphthalene-d10	76		79		30-150
Benzo(b)fluoranthene-d12	77		81		30-150



Matrix Spike Analysis

Batch Quality Control

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
------------------	----------------------	-----------------	-----------------	---------------------	-------------	------------------	----------------------	-------------	------------------------	------------	-------------	-------------------

RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG766025-4 WG766025-5 QC Sample: L1503503-07 Client ID: L-62

<i>Surrogate</i>	<i>MS</i>		<i>MSD</i>		<i>Acceptance Criteria</i>
	<i>% Recovery</i>	<i>Qualifier</i>	<i>% Recovery</i>	<i>Qualifier</i>	
Pyrene-d10	78		83		30-150



Lab Duplicate Analysis

Batch Quality Control

Project Name: LIS-USACOE RIM DREDGE

Project Number: Not Specified

Lab Number: L1503503

Report Date: 03/16/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG766025-6 QC Sample: L1503503-07 Client ID: L-62						
Naphthalene	ND	ND	ug/kg	NC		30
Acenaphthylene	19.6	10.8	ug/kg	58	Q	30
Acenaphthene	ND	ND	ug/kg	NC		30
Fluorene	ND	ND	ug/kg	NC		30
Phenanthrene	72.1	38.2	ug/kg	61	Q	30
Anthracene	15.1	9.64	ug/kg	44	Q	30
Fluoranthene	191	104	ug/kg	59	Q	30
Pyrene	172	101	ug/kg	52	Q	30
Benz(a)anthracene	93.1	47.6	ug/kg	65	Q	30
Chrysene	113	67.2	ug/kg	51	Q	30
Benzo(b)fluoranthene	131	64.3	ug/kg	68	Q	30
Benzo(k)fluoranthene	96.7	63.9	ug/kg	41	Q	30
Benzo(a)pyrene	110	60.9	ug/kg	57	Q	30
Indeno(1,2,3-cd)Pyrene	93.3	52.8	ug/kg	55	Q	30
Dibenz(a,h)anthracene	18.0	9.23	ug/kg	64	Q	30
Benzo(ghi)perylene	88.7	48.9	ug/kg	58	Q	30
Cl2-BZ#8	ND	ND	ug/kg	NC		30
Cl3-BZ#18	ND	ND	ug/kg	NC		30
Cl3-BZ#28	ND	ND	ug/kg	NC		30

Lab Duplicate Analysis

Batch Quality Control

Project Name: LIS-USACOE RIM DREDGE

Project Number: Not Specified

Lab Number: L1503503

Report Date: 03/16/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG766025-6 QC Sample: L1503503-07 Client ID: L-62					
C14-BZ#44	ND	ND	ug/kg	NC	30
C14-BZ#49	ND	ND	ug/kg	NC	30
C14-BZ#52	ND	ND	ug/kg	NC	30
C14-BZ#66	ND	ND	ug/kg	NC	30
C15-BZ#87	ND	ND	ug/kg	NC	30
C15-BZ#101	ND	ND	ug/kg	NC	30
C15-BZ#105	ND	ND	ug/kg	NC	30
C15-BZ#118	ND	ND	ug/kg	NC	30
C16-BZ#128	ND	ND	ug/kg	NC	30
C16-BZ#138	0.978	0.825	ug/kg	17	30
C16-BZ#153	ND	ND	ug/kg	NC	30
C17-BZ#170	ND	ND	ug/kg	NC	30
C17-BZ#180	ND	ND	ug/kg	NC	30
C17-BZ#183	ND	ND	ug/kg	NC	30
C17-BZ#184	ND	ND	ug/kg	NC	30
C17-BZ#187	ND	ND	ug/kg	NC	30
C18-BZ#195	ND	ND	ug/kg	NC	30
C19-BZ#206	ND	ND	ug/kg	NC	30
C10-BZ#209	ND	ND	ug/kg	NC	30

Lab Duplicate Analysis

Batch Quality Control

Project Name: LIS-USACOE RIM DREDGE

Project Number: Not Specified

Lab Number: L1503503

Report Date: 03/16/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
RIM PAHs/PCB Congeners by GC/MS - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG766025-6 QC Sample: L1503503-07 Client ID: L-62					

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	84		85		30-150
Pyrene-d10	87		88		30-150
Benzo(b)fluoranthene-d12	86		87		30-150
DBOB	89		94		30-150
BZ 198	89		89		30-150

Project Name: LIS-USACOE RIM DREDGE
 Project Number: Not Specified

Lab Number: L1503503
 Report Date: 03/16/15

S.R.M. Standard Quality Control

Standard Reference Material (SRM): WG766025-7

Parameter	% Recovery	Qual	QC Criteria
Phenanthrene	54		40-140
Fluoranthene	56		40-140
Pyrene	47		40-140
Benz(a)anthracene	52		40-140
Chrysene	67		40-140
Benzo(b)fluoranthene	54		40-140
Benzo(k)fluoranthene	103		40-140
Benzo(a)pyrene	45		40-140
Indeno(1,2,3-cd)Pyrene	60		40-140
Dibenz(a,h)anthracene	96		40-140
Benzo(ghi)perylene	56		40-140
Cl2-BZ#8	54		40-140
Cl3-BZ#18	62		40-140
Cl3-BZ#28	42		40-140
Cl4-BZ#44	62		40-140
Cl4-BZ#49	55		40-140
Cl4-BZ#52	58		40-140
Cl4-BZ#66	50		40-140
Cl5-BZ#87	65		40-140
Cl5-BZ#101	62		40-140
Cl5-BZ#105	66		40-140
Cl5-BZ#118	58		40-140
Cl6-BZ#128	104		40-140
Cl6-BZ#138	71		40-140
Cl6-BZ#153	50		40-140
Cl7-BZ#170	63		40-140
Cl7-BZ#180	52		40-140
Cl7-BZ#183	60		40-140
Cl7-BZ#187	58		40-140
Cl9-BZ#206	69		40-140
Cl10-BZ#209	62		40-140
2-Methylnaphthalene-d10 (Surrogate)	64		30-150
Pyrene-d10 (Surrogate)	65		30-150
Benzo(b)fluoranthene-d12 (Surrogate)	63		30-150
DBOB (Surrogate)	60		30-150
BZ 198 (Surrogate)	66		30-150



PESTICIDES

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-01
 Client ID: L-56
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 1,8081B
 Analytical Date: 03/05/15 23:16
 Analyst: SF
 Percent Solids: 70%

Date Collected: 02/24/15 11:22
 Date Received: 02/24/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
RIM Organochlorine Pesticides - Mansfield Lab							
Hexachlorobenzene	ND		ug/kg	0.668	--	1	A
gamma-BHC	ND		ug/kg	0.334	--	1	A
Heptachlor	ND		ug/kg	0.334	--	1	A
Aldrin	ND		ug/kg	0.334	--	1	A
Heptachlor epoxide	ND		ug/kg	0.668	--	1	B
Oxychlorane	ND		ug/kg	0.668	--	1	B
trans-Chlordane	ND		ug/kg	0.334	--	1	A
Endosulfan I	ND		ug/kg	0.334	--	1	A
cis-Chlordane	ND		ug/kg	0.334	--	1	A
trans-Nonachlor	ND		ug/kg	0.334	--	1	A
4,4'-DDE	ND		ug/kg	0.334	--	1	A
Dieldrin	ND		ug/kg	0.334	--	1	A
Endrin	ND		ug/kg	0.334	--	1	A
Endosulfan II	ND		ug/kg	0.334	--	1	A
4,4'-DDD	ND		ug/kg	0.334	--	1	A
cis-Nonachlor	ND		ug/kg	0.334	--	1	A
4,4'-DDT	ND		ug/kg	0.334	--	1	A
Methoxychlor	ND		ug/kg	3.34	--	1	A
Toxaphene	ND		ug/kg	16.8	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DBOB	68		30-150	A
BZ 198	81		30-150	A
DBOB	65		30-150	B
BZ 198	82		30-150	B



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-02
 Client ID: L-55
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 1,8081B
 Analytical Date: 03/05/15 23:48
 Analyst: SF
 Percent Solids: 80%

Date Collected: 02/24/15 12:01
 Date Received: 02/24/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
RIM Organochlorine Pesticides - Mansfield Lab							
Hexachlorobenzene	ND		ug/kg	1.14	--	1	A
gamma-BHC	ND		ug/kg	0.572	--	1	A
Heptachlor	ND		ug/kg	0.572	--	1	A
Aldrin	ND		ug/kg	0.572	--	1	A
Heptachlor epoxide	ND		ug/kg	1.14	--	1	B
Oxychlorane	ND		ug/kg	1.14	--	1	B
trans-Chlordane	ND		ug/kg	0.572	--	1	A
Endosulfan I	ND		ug/kg	0.572	--	1	A
cis-Chlordane	ND		ug/kg	0.572	--	1	A
trans-Nonachlor	ND		ug/kg	0.572	--	1	A
4,4'-DDE	ND		ug/kg	0.572	--	1	A
Dieldrin	ND		ug/kg	0.572	--	1	A
Endrin	ND		ug/kg	0.572	--	1	A
Endosulfan II	ND		ug/kg	0.572	--	1	A
4,4'-DDD	ND		ug/kg	0.572	--	1	A
cis-Nonachlor	ND		ug/kg	0.572	--	1	A
4,4'-DDT	ND		ug/kg	0.572	--	1	A
Methoxychlor	ND		ug/kg	5.72	--	1	A
Toxaphene	ND		ug/kg	28.7	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DBOB	64		30-150	A
BZ 198	79		30-150	A
DBOB	62		30-150	B
BZ 198	80		30-150	B



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-03
 Client ID: L-54
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 1,8081B
 Analytical Date: 03/06/15 00:21
 Analyst: SF
 Percent Solids: 79%

Date Collected: 02/24/15 12:35
 Date Received: 02/24/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
RIM Organochlorine Pesticides - Mansfield Lab							
Hexachlorobenzene	ND		ug/kg	1.19	--	1	A
gamma-BHC	ND		ug/kg	0.596	--	1	A
Heptachlor	ND		ug/kg	0.596	--	1	A
Aldrin	ND		ug/kg	0.596	--	1	A
Heptachlor epoxide	ND		ug/kg	1.19	--	1	B
Oxychlorane	ND		ug/kg	1.19	--	1	B
trans-Chlordane	ND		ug/kg	0.596	--	1	A
Endosulfan I	ND		ug/kg	0.596	--	1	A
cis-Chlordane	ND		ug/kg	0.596	--	1	A
trans-Nonachlor	ND		ug/kg	0.596	--	1	A
4,4'-DDE	ND		ug/kg	0.596	--	1	A
Dieldrin	ND		ug/kg	0.596	--	1	A
Endrin	ND		ug/kg	0.596	--	1	A
Endosulfan II	ND		ug/kg	0.596	--	1	A
4,4'-DDD	ND		ug/kg	0.596	--	1	A
cis-Nonachlor	ND		ug/kg	0.596	--	1	A
4,4'-DDT	ND		ug/kg	0.596	--	1	A
Methoxychlor	ND		ug/kg	5.96	--	1	A
Toxaphene	ND		ug/kg	29.9	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DBOB	55		30-150	A
BZ 198	79		30-150	A
DBOB	53		30-150	B
BZ 198	80		30-150	B



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-04
 Client ID: L-53
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 1,8081B
 Analytical Date: 03/06/15 00:53
 Analyst: SF
 Percent Solids: 62%

Date Collected: 02/24/15 13:01
 Date Received: 02/24/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
RIM Organochlorine Pesticides - Mansfield Lab							
Hexachlorobenzene	ND		ug/kg	0.765	--	1	A
gamma-BHC	ND		ug/kg	0.382	--	1	A
Heptachlor	ND		ug/kg	0.382	--	1	A
Aldrin	ND		ug/kg	0.382	--	1	A
Heptachlor epoxide	ND		ug/kg	0.765	--	1	B
Oxychlorane	ND		ug/kg	0.765	--	1	B
trans-Chlordane	ND		ug/kg	0.382	--	1	A
Endosulfan I	ND		ug/kg	0.382	--	1	A
cis-Chlordane	ND		ug/kg	0.382	--	1	A
trans-Nonachlor	ND		ug/kg	0.382	--	1	A
4,4'-DDE	ND		ug/kg	0.382	--	1	A
Dieldrin	ND		ug/kg	0.382	--	1	A
Endrin	ND		ug/kg	0.382	--	1	A
Endosulfan II	ND		ug/kg	0.382	--	1	A
4,4'-DDD	ND		ug/kg	0.382	--	1	A
cis-Nonachlor	ND		ug/kg	0.382	--	1	A
4,4'-DDT	ND		ug/kg	0.382	--	1	A
Methoxychlor	ND		ug/kg	3.82	--	1	A
Toxaphene	ND		ug/kg	19.2	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DBOB	60		30-150	A
BZ 198	81		30-150	A
DBOB	57		30-150	B
BZ 198	83		30-150	B



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-05
 Client ID: L-52
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 1,8081B
 Analytical Date: 03/06/15 01:25
 Analyst: SF
 Percent Solids: 81%

Date Collected: 02/24/15 13:52
 Date Received: 02/24/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
RIM Organochlorine Pesticides - Mansfield Lab							
Hexachlorobenzene	ND		ug/kg	1.06	--	1	A
gamma-BHC	ND		ug/kg	0.531	--	1	A
Heptachlor	ND		ug/kg	0.531	--	1	A
Aldrin	ND		ug/kg	0.531	--	1	A
Heptachlor epoxide	ND		ug/kg	1.06	--	1	B
Oxychlorane	ND		ug/kg	1.06	--	1	B
trans-Chlordane	ND		ug/kg	0.531	--	1	A
Endosulfan I	ND		ug/kg	0.531	--	1	A
cis-Chlordane	ND		ug/kg	0.531	--	1	A
trans-Nonachlor	ND		ug/kg	0.531	--	1	A
4,4'-DDE	ND		ug/kg	0.531	--	1	A
Dieldrin	ND		ug/kg	0.531	--	1	A
Endrin	ND		ug/kg	0.531	--	1	A
Endosulfan II	ND		ug/kg	0.531	--	1	A
4,4'-DDD	ND		ug/kg	0.531	--	1	A
cis-Nonachlor	ND		ug/kg	0.531	--	1	A
4,4'-DDT	ND		ug/kg	0.531	--	1	A
Methoxychlor	ND		ug/kg	5.31	--	1	A
Toxaphene	ND		ug/kg	26.7	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DBOB	59		30-150	A
BZ 198	80		30-150	A
DBOB	55		30-150	B
BZ 198	82		30-150	B



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-06
 Client ID: L-51
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 1,8081B
 Analytical Date: 03/06/15 01:58
 Analyst: SF
 Percent Solids: 79%

Date Collected: 02/24/15 14:20
 Date Received: 02/24/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
RIM Organochlorine Pesticides - Mansfield Lab							
Hexachlorobenzene	ND		ug/kg	1.06	--	1	A
gamma-BHC	ND		ug/kg	0.530	--	1	A
Heptachlor	ND		ug/kg	0.530	--	1	A
Aldrin	ND		ug/kg	0.530	--	1	A
Heptachlor epoxide	ND		ug/kg	1.06	--	1	B
Oxychlorane	ND		ug/kg	1.06	--	1	B
trans-Chlordane	ND		ug/kg	0.530	--	1	A
Endosulfan I	ND		ug/kg	0.530	--	1	A
cis-Chlordane	ND		ug/kg	0.530	--	1	A
trans-Nonachlor	ND		ug/kg	0.530	--	1	A
4,4'-DDE	ND		ug/kg	0.530	--	1	A
Dieldrin	ND		ug/kg	0.530	--	1	A
Endrin	ND		ug/kg	0.530	--	1	A
Endosulfan II	ND		ug/kg	0.530	--	1	A
4,4'-DDD	ND		ug/kg	0.530	--	1	A
cis-Nonachlor	ND		ug/kg	0.530	--	1	A
4,4'-DDT	ND		ug/kg	0.530	--	1	A
Methoxychlor	ND		ug/kg	5.30	--	1	A
Toxaphene	ND		ug/kg	26.6	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DBOB	63		30-150	A
BZ 198	78		30-150	A
DBOB	59		30-150	B
BZ 198	79		30-150	B



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-07
 Client ID: L-62
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 1,8081B
 Analytical Date: 03/09/15 21:14
 Analyst: SF
 Percent Solids: 63%

Date Collected: 02/24/15 14:35
 Date Received: 02/24/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
RIM Organochlorine Pesticides - Mansfield Lab							
Hexachlorobenzene	ND		ug/kg	0.786	--	1	A
gamma-BHC	ND		ug/kg	0.393	--	1	A
Heptachlor	ND		ug/kg	0.393	--	1	A
Aldrin	ND		ug/kg	0.393	--	1	A
Heptachlor epoxide	ND		ug/kg	0.786	--	1	B
Oxychlorane	0.908		ug/kg	0.786	--	1	B
trans-Chlordane	ND		ug/kg	0.393	--	1	A
Endosulfan I	ND		ug/kg	0.393	--	1	A
cis-Chlordane	ND		ug/kg	0.393	--	1	A
trans-Nonachlor	ND		ug/kg	0.393	--	1	A
4,4'-DDE	0.437	IP	ug/kg	0.393	--	1	B
Dieldrin	ND		ug/kg	0.393	--	1	A
Endrin	ND		ug/kg	0.393	--	1	A
Endosulfan II	ND		ug/kg	0.393	--	1	A
4,4'-DDD	ND		ug/kg	0.393	--	1	A
cis-Nonachlor	ND		ug/kg	0.393	--	1	A
4,4'-DDT	0.454	IP	ug/kg	0.393	--	1	A
Methoxychlor	ND		ug/kg	3.93	--	1	A
Toxaphene	ND		ug/kg	19.7	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DBOB	80		30-150	A
BZ 198	79		30-150	A
DBOB	68		30-150	B
BZ 198	81		30-150	B



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-08
 Client ID: L41
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 1,8081B
 Analytical Date: 03/06/15 06:17
 Analyst: SF
 Percent Solids: 75%

Date Collected: 02/25/15 09:33
 Date Received: 02/26/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
RIM Organochlorine Pesticides - Mansfield Lab							
Hexachlorobenzene	ND		ug/kg	1.32	--	1	A
gamma-BHC	ND		ug/kg	0.659	--	1	A
Heptachlor	ND		ug/kg	0.659	--	1	A
Aldrin	ND		ug/kg	0.659	--	1	A
Heptachlor epoxide	ND		ug/kg	1.32	--	1	B
Oxychlorane	ND		ug/kg	1.32	--	1	B
trans-Chlordane	ND		ug/kg	0.659	--	1	A
Endosulfan I	ND		ug/kg	0.659	--	1	A
cis-Chlordane	ND		ug/kg	0.659	--	1	A
trans-Nonachlor	ND		ug/kg	0.659	--	1	A
4,4'-DDE	ND		ug/kg	0.659	--	1	A
Dieldrin	ND		ug/kg	0.659	--	1	A
Endrin	ND		ug/kg	0.659	--	1	A
Endosulfan II	ND		ug/kg	0.659	--	1	A
4,4'-DDD	ND		ug/kg	0.659	--	1	A
cis-Nonachlor	ND		ug/kg	0.659	--	1	A
4,4'-DDT	ND		ug/kg	0.659	--	1	A
Methoxychlor	ND		ug/kg	6.59	--	1	A
Toxaphene	ND		ug/kg	33.1	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DBOB	60		30-150	A
BZ 198	70		30-150	A
DBOB	50		30-150	B
BZ 198	72		30-150	B



Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-09
Client ID: L32
Sample Location: EASTERN LONG ISLAND SOUND
Matrix: Sediment
Analytical Method: 1,8081B
Analytical Date: 03/06/15 06:50
Analyst: SF
Percent Solids: 78%

Date Collected: 02/25/15 10:05
Date Received: 02/26/15
Field Prep: Not Specified
Extraction Method: EPA 3570
Extraction Date: 03/04/15 09:30
Cleanup Method: EPA 3630
Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
RIM Organochlorine Pesticides - Mansfield Lab							
Hexachlorobenzene	ND		ug/kg	1.23	--	1	A
gamma-BHC	ND		ug/kg	0.614	--	1	A
Heptachlor	ND		ug/kg	0.614	--	1	A
Aldrin	ND		ug/kg	0.614	--	1	A
Heptachlor epoxide	ND		ug/kg	1.23	--	1	B
Oxychlorane	ND		ug/kg	1.23	--	1	B
trans-Chlordane	ND		ug/kg	0.614	--	1	A
Endosulfan I	ND		ug/kg	0.614	--	1	A
cis-Chlordane	ND		ug/kg	0.614	--	1	A
trans-Nonachlor	ND		ug/kg	0.614	--	1	A
4,4'-DDE	ND		ug/kg	0.614	--	1	A
Dieldrin	ND		ug/kg	0.614	--	1	A
Endrin	ND		ug/kg	0.614	--	1	A
Endosulfan II	ND		ug/kg	0.614	--	1	A
4,4'-DDD	ND		ug/kg	0.614	--	1	A
cis-Nonachlor	ND		ug/kg	0.614	--	1	A
4,4'-DDT	ND		ug/kg	0.614	--	1	A
Methoxychlor	ND		ug/kg	6.14	--	1	A
Toxaphene	ND		ug/kg	30.8	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DBOB	62		30-150	A
BZ 198	76		30-150	A
DBOB	59		30-150	B
BZ 198	79		30-150	B



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-10
 Client ID: L35
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 1,8081B
 Analytical Date: 03/06/15 07:22
 Analyst: SF
 Percent Solids: 74%

Date Collected: 02/25/15 10:19
 Date Received: 02/26/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
RIM Organochlorine Pesticides - Mansfield Lab							
Hexachlorobenzene	ND		ug/kg	1.30	--	1	A
gamma-BHC	ND		ug/kg	0.650	--	1	A
Heptachlor	ND		ug/kg	0.650	--	1	A
Aldrin	ND		ug/kg	0.650	--	1	A
Heptachlor epoxide	ND		ug/kg	1.30	--	1	B
Oxychlorane	ND		ug/kg	1.30	--	1	B
trans-Chlordane	ND		ug/kg	0.650	--	1	A
Endosulfan I	ND		ug/kg	0.650	--	1	A
cis-Chlordane	ND		ug/kg	0.650	--	1	A
trans-Nonachlor	ND		ug/kg	0.650	--	1	A
4,4'-DDE	ND		ug/kg	0.650	--	1	A
Dieldrin	ND		ug/kg	0.650	--	1	A
Endrin	ND		ug/kg	0.650	--	1	A
Endosulfan II	ND		ug/kg	0.650	--	1	A
4,4'-DDD	ND		ug/kg	0.650	--	1	A
cis-Nonachlor	ND		ug/kg	0.650	--	1	A
4,4'-DDT	ND		ug/kg	0.650	--	1	A
Methoxychlor	ND		ug/kg	6.50	--	1	A
Toxaphene	ND		ug/kg	32.6	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DBOB	59		30-150	A
BZ 198	74		30-150	A
DBOB	54		30-150	B
BZ 198	78		30-150	B



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-11
 Client ID: L33
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 1,8081B
 Analytical Date: 03/06/15 07:55
 Analyst: SF
 Percent Solids: 70%

Date Collected: 02/25/15 10:35
 Date Received: 02/26/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
RIM Organochlorine Pesticides - Mansfield Lab							
Hexachlorobenzene	ND		ug/kg	0.700	--	1	A
gamma-BHC	ND		ug/kg	0.350	--	1	A
Heptachlor	ND		ug/kg	0.350	--	1	A
Aldrin	ND		ug/kg	0.350	--	1	A
Heptachlor epoxide	ND		ug/kg	0.700	--	1	B
Oxychlorane	ND		ug/kg	0.700	--	1	B
trans-Chlordane	ND		ug/kg	0.350	--	1	A
Endosulfan I	ND		ug/kg	0.350	--	1	A
cis-Chlordane	ND		ug/kg	0.350	--	1	A
trans-Nonachlor	ND		ug/kg	0.350	--	1	A
4,4'-DDE	ND		ug/kg	0.350	--	1	A
Dieldrin	ND		ug/kg	0.350	--	1	A
Endrin	ND		ug/kg	0.350	--	1	A
Endosulfan II	ND		ug/kg	0.350	--	1	A
4,4'-DDD	ND		ug/kg	0.350	--	1	A
cis-Nonachlor	ND		ug/kg	0.350	--	1	A
4,4'-DDT	ND		ug/kg	0.350	--	1	A
Methoxychlor	ND		ug/kg	3.50	--	1	A
Toxaphene	ND		ug/kg	17.6	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DBOB	62		30-150	A
BZ 198	75		30-150	A
DBOB	56		30-150	B
BZ 198	79		30-150	B



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-12
 Client ID: L31
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 1,8081B
 Analytical Date: 03/06/15 08:27
 Analyst: SF
 Percent Solids: 74%

Date Collected: 02/25/15 11:00
 Date Received: 02/26/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
RIM Organochlorine Pesticides - Mansfield Lab							
Hexachlorobenzene	ND		ug/kg	1.26	--	1	A
gamma-BHC	ND		ug/kg	0.633	--	1	A
Heptachlor	ND		ug/kg	0.633	--	1	A
Aldrin	ND		ug/kg	0.633	--	1	A
Heptachlor epoxide	ND		ug/kg	1.26	--	1	B
Oxychlorane	ND		ug/kg	1.26	--	1	B
trans-Chlordane	ND		ug/kg	0.633	--	1	A
Endosulfan I	ND		ug/kg	0.633	--	1	A
cis-Chlordane	ND		ug/kg	0.633	--	1	A
trans-Nonachlor	ND		ug/kg	0.633	--	1	A
4,4'-DDE	ND		ug/kg	0.633	--	1	A
Dieldrin	ND		ug/kg	0.633	--	1	A
Endrin	ND		ug/kg	0.633	--	1	A
Endosulfan II	ND		ug/kg	0.633	--	1	A
4,4'-DDD	ND		ug/kg	0.633	--	1	A
cis-Nonachlor	ND		ug/kg	0.633	--	1	A
4,4'-DDT	ND		ug/kg	0.633	--	1	A
Methoxychlor	ND		ug/kg	6.33	--	1	A
Toxaphene	ND		ug/kg	31.8	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DBOB	61		30-150	A
BZ 198	75		30-150	A
DBOB	55		30-150	B
BZ 198	79		30-150	B



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-13
 Client ID: L34
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 1,8081B
 Analytical Date: 03/09/15 16:55
 Analyst: SF
 Percent Solids: 77%

Date Collected: 02/25/15 11:19
 Date Received: 02/26/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/09/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
RIM Organochlorine Pesticides - Mansfield Lab							
Hexachlorobenzene	ND		ug/kg	1.12	--	1	A
gamma-BHC	ND		ug/kg	0.561	--	1	A
Heptachlor	ND		ug/kg	0.561	--	1	A
Aldrin	ND		ug/kg	0.561	--	1	A
Heptachlor epoxide	ND		ug/kg	1.12	--	1	B
Oxychlorane	ND		ug/kg	1.12	--	1	B
trans-Chlordane	ND		ug/kg	0.561	--	1	A
Endosulfan I	ND		ug/kg	0.561	--	1	A
cis-Chlordane	ND		ug/kg	0.561	--	1	A
trans-Nonachlor	ND		ug/kg	0.561	--	1	A
4,4'-DDE	ND		ug/kg	0.561	--	1	A
Dieldrin	ND		ug/kg	0.561	--	1	A
Endrin	ND		ug/kg	0.561	--	1	A
Endosulfan II	ND		ug/kg	0.561	--	1	A
4,4'-DDD	ND		ug/kg	0.561	--	1	A
cis-Nonachlor	ND		ug/kg	0.561	--	1	A
4,4'-DDT	ND		ug/kg	0.561	--	1	A
Methoxychlor	ND		ug/kg	5.61	--	1	A
Toxaphene	ND		ug/kg	28.2	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DBOB	88		30-150	A
BZ 198	87		30-150	A
DBOB	85		30-150	B
BZ 198	84		30-150	B



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-14
 Client ID: L36
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 1,8081B
 Analytical Date: 03/09/15 17:27
 Analyst: SF
 Percent Solids: 75%

Date Collected: 02/25/15 11:35
 Date Received: 02/26/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
RIM Organochlorine Pesticides - Mansfield Lab							
Hexachlorobenzene	ND		ug/kg	1.31	--	1	A
gamma-BHC	ND		ug/kg	0.657	--	1	A
Heptachlor	ND		ug/kg	0.657	--	1	A
Aldrin	ND		ug/kg	0.657	--	1	A
Heptachlor epoxide	ND		ug/kg	1.31	--	1	B
Oxychlorane	ND		ug/kg	1.31	--	1	B
trans-Chlordane	ND		ug/kg	0.657	--	1	A
Endosulfan I	ND		ug/kg	0.657	--	1	A
cis-Chlordane	ND		ug/kg	0.657	--	1	A
trans-Nonachlor	ND		ug/kg	0.657	--	1	A
4,4'-DDE	ND		ug/kg	0.657	--	1	A
Dieldrin	ND		ug/kg	0.657	--	1	A
Endrin	ND		ug/kg	0.657	--	1	A
Endosulfan II	ND		ug/kg	0.657	--	1	A
4,4'-DDD	ND		ug/kg	0.657	--	1	A
cis-Nonachlor	ND		ug/kg	0.657	--	1	A
4,4'-DDT	ND		ug/kg	0.657	--	1	A
Methoxychlor	ND		ug/kg	6.57	--	1	A
Toxaphene	ND		ug/kg	33.0	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DBOB	65		30-150	A
BZ 198	78		30-150	A
DBOB	60		30-150	B
BZ 198	82		30-150	B



Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-15
Client ID: L37
Sample Location: EASTERN LONG ISLAND SOUND
Matrix: Sediment
Analytical Method: 1,8081B
Analytical Date: 03/09/15 18:00
Analyst: SF
Percent Solids: 71%

Date Collected: 02/25/15 12:36
Date Received: 02/26/15
Field Prep: Not Specified
Extraction Method: EPA 3570
Extraction Date: 03/04/15 09:30
Cleanup Method: EPA 3630
Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
RIM Organochlorine Pesticides - Mansfield Lab							
Hexachlorobenzene	ND		ug/kg	1.35	--	1	A
gamma-BHC	ND		ug/kg	0.674	--	1	A
Heptachlor	ND		ug/kg	0.674	--	1	A
Aldrin	ND		ug/kg	0.674	--	1	A
Heptachlor epoxide	ND		ug/kg	1.35	--	1	B
Oxychlorane	ND		ug/kg	1.35	--	1	B
trans-Chlordane	ND		ug/kg	0.674	--	1	A
Endosulfan I	ND		ug/kg	0.674	--	1	A
cis-Chlordane	ND		ug/kg	0.674	--	1	A
trans-Nonachlor	ND		ug/kg	0.674	--	1	A
4,4'-DDE	ND		ug/kg	0.674	--	1	A
Dieldrin	ND		ug/kg	0.674	--	1	A
Endrin	ND		ug/kg	0.674	--	1	A
Endosulfan II	ND		ug/kg	0.674	--	1	A
4,4'-DDD	ND		ug/kg	0.674	--	1	A
cis-Nonachlor	ND		ug/kg	0.674	--	1	A
4,4'-DDT	ND		ug/kg	0.674	--	1	A
Methoxychlor	ND		ug/kg	6.74	--	1	A
Toxaphene	ND		ug/kg	33.8	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DBOB	71		30-150	A
BZ 198	85		30-150	A
DBOB	66		30-150	B
BZ 198	87		30-150	B



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-16
 Client ID: L38
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 1,8081B
 Analytical Date: 03/09/15 18:32
 Analyst: SF
 Percent Solids: 73%

Date Collected: 02/25/15 13:06
 Date Received: 02/26/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
RIM Organochlorine Pesticides - Mansfield Lab							
Hexachlorobenzene	ND		ug/kg	1.34	--	1	A
gamma-BHC	ND		ug/kg	0.669	--	1	A
Heptachlor	ND		ug/kg	0.669	--	1	A
Aldrin	ND		ug/kg	0.669	--	1	A
Heptachlor epoxide	ND		ug/kg	1.34	--	1	B
Oxychlorane	ND		ug/kg	1.34	--	1	B
trans-Chlordane	ND		ug/kg	0.669	--	1	A
Endosulfan I	ND		ug/kg	0.669	--	1	A
cis-Chlordane	ND		ug/kg	0.669	--	1	A
trans-Nonachlor	ND		ug/kg	0.669	--	1	A
4,4'-DDE	ND		ug/kg	0.669	--	1	A
Dieldrin	ND		ug/kg	0.669	--	1	A
Endrin	ND		ug/kg	0.669	--	1	A
Endosulfan II	ND		ug/kg	0.669	--	1	A
4,4'-DDD	ND		ug/kg	0.669	--	1	A
cis-Nonachlor	ND		ug/kg	0.669	--	1	A
4,4'-DDT	ND		ug/kg	0.669	--	1	A
Methoxychlor	ND		ug/kg	6.69	--	1	A
Toxaphene	ND		ug/kg	33.6	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DBOB	79		30-150	A
BZ 198	79		30-150	A
DBOB	75		30-150	B
BZ 198	82		30-150	B



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-17
 Client ID: L40
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 1,8081B
 Analytical Date: 03/09/15 19:05
 Analyst: SF
 Percent Solids: 66%

Date Collected: 02/25/15 13:30
 Date Received: 02/26/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
RIM Organochlorine Pesticides - Mansfield Lab							
Hexachlorobenzene	ND		ug/kg	0.726	--	1	A
gamma-BHC	ND		ug/kg	0.363	--	1	A
Heptachlor	ND		ug/kg	0.363	--	1	A
Aldrin	ND		ug/kg	0.363	--	1	A
Heptachlor epoxide	ND		ug/kg	0.726	--	1	B
Oxychlorane	ND		ug/kg	0.726	--	1	B
trans-Chlordane	ND		ug/kg	0.363	--	1	A
Endosulfan I	ND		ug/kg	0.363	--	1	A
cis-Chlordane	ND		ug/kg	0.363	--	1	A
trans-Nonachlor	ND		ug/kg	0.363	--	1	A
4,4'-DDE	ND		ug/kg	0.363	--	1	A
Dieldrin	ND		ug/kg	0.363	--	1	A
Endrin	ND		ug/kg	0.363	--	1	A
Endosulfan II	ND		ug/kg	0.363	--	1	A
4,4'-DDD	ND		ug/kg	0.363	--	1	A
cis-Nonachlor	ND		ug/kg	0.363	--	1	A
4,4'-DDT	ND		ug/kg	0.363	--	1	A
Methoxychlor	ND		ug/kg	3.63	--	1	A
Toxaphene	ND		ug/kg	18.2	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DBOB	68		30-150	A
BZ 198	70		30-150	A
DBOB	63		30-150	B
BZ 198	73		30-150	B



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-18
 Client ID: L39
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 1,8081B
 Analytical Date: 03/09/15 19:37
 Analyst: SF
 Percent Solids: 71%

Date Collected: 02/25/15 13:45
 Date Received: 02/26/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
RIM Organochlorine Pesticides - Mansfield Lab							
Hexachlorobenzene	ND		ug/kg	1.41	--	1	A
gamma-BHC	ND		ug/kg	0.703	--	1	A
Heptachlor	ND		ug/kg	0.703	--	1	A
Aldrin	ND		ug/kg	0.703	--	1	A
Heptachlor epoxide	ND		ug/kg	1.41	--	1	B
Oxychlorane	ND		ug/kg	1.41	--	1	B
trans-Chlordane	ND		ug/kg	0.703	--	1	A
Endosulfan I	ND		ug/kg	0.703	--	1	A
cis-Chlordane	ND		ug/kg	0.703	--	1	A
trans-Nonachlor	ND		ug/kg	0.703	--	1	A
4,4'-DDE	ND		ug/kg	0.703	--	1	A
Dieldrin	ND		ug/kg	0.703	--	1	A
Endrin	ND		ug/kg	0.703	--	1	A
Endosulfan II	ND		ug/kg	0.703	--	1	A
4,4'-DDD	ND		ug/kg	0.703	--	1	A
cis-Nonachlor	ND		ug/kg	0.703	--	1	A
4,4'-DDT	ND		ug/kg	0.703	--	1	A
Methoxychlor	ND		ug/kg	7.03	--	1	A
Toxaphene	ND		ug/kg	35.3	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DBOB	68		30-150	A
BZ 198	78		30-150	A
DBOB	67		30-150	B
BZ 198	78		30-150	B



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-19
 Client ID: L26A
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 1,8081B
 Analytical Date: 03/09/15 20:09
 Analyst: SF
 Percent Solids: 65%

Date Collected: 02/25/15 14:24
 Date Received: 02/26/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
RIM Organochlorine Pesticides - Mansfield Lab							
Hexachlorobenzene	ND		ug/kg	0.718	--	1	A
gamma-BHC	ND		ug/kg	0.359	--	1	A
Heptachlor	ND		ug/kg	0.359	--	1	A
Aldrin	ND		ug/kg	0.359	--	1	A
Heptachlor epoxide	ND		ug/kg	0.718	--	1	B
Oxychlorane	ND		ug/kg	0.718	--	1	B
trans-Chlordane	ND		ug/kg	0.359	--	1	A
Endosulfan I	ND		ug/kg	0.359	--	1	A
cis-Chlordane	ND		ug/kg	0.359	--	1	A
trans-Nonachlor	ND		ug/kg	0.359	--	1	A
4,4'-DDE	ND		ug/kg	0.359	--	1	A
Dieldrin	ND		ug/kg	0.359	--	1	A
Endrin	ND		ug/kg	0.359	--	1	A
Endosulfan II	ND		ug/kg	0.359	--	1	A
4,4'-DDD	ND		ug/kg	0.359	--	1	A
cis-Nonachlor	ND		ug/kg	0.359	--	1	A
4,4'-DDT	ND		ug/kg	0.359	--	1	A
Methoxychlor	ND		ug/kg	3.59	--	1	A
Toxaphene	ND		ug/kg	18.0	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DBOB	55		30-150	A
BZ 198	63		30-150	A
DBOB	53		30-150	B
BZ 198	63		30-150	B



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-20
 Client ID: L26B
 Sample Location: EASTERN LONG ISLAND SOUND
 Matrix: Sediment
 Analytical Method: 1,8081B
 Analytical Date: 03/09/15 20:42
 Analyst: SF
 Percent Solids: 67%

Date Collected: 02/25/15 14:30
 Date Received: 02/26/15
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 03/04/15 09:30
 Cleanup Method: EPA 3630
 Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
RIM Organochlorine Pesticides - Mansfield Lab							
Hexachlorobenzene	1.48		ug/kg	0.709	--	1	B
gamma-BHC	ND		ug/kg	0.355	--	1	A
Heptachlor	ND		ug/kg	0.355	--	1	A
Aldrin	ND		ug/kg	0.355	--	1	A
Heptachlor epoxide	ND		ug/kg	0.709	--	1	B
Oxychlorane	ND		ug/kg	0.709	--	1	B
trans-Chlordane	ND		ug/kg	0.355	--	1	A
Endosulfan I	ND		ug/kg	0.355	--	1	A
cis-Chlordane	ND		ug/kg	0.355	--	1	A
trans-Nonachlor	ND		ug/kg	0.355	--	1	A
4,4'-DDE	ND		ug/kg	0.355	--	1	A
Dieldrin	ND		ug/kg	0.355	--	1	A
Endrin	ND		ug/kg	0.355	--	1	A
Endosulfan II	ND		ug/kg	0.355	--	1	A
4,4'-DDD	ND		ug/kg	0.355	--	1	A
cis-Nonachlor	ND		ug/kg	0.355	--	1	A
4,4'-DDT	ND		ug/kg	0.355	--	1	A
Methoxychlor	ND		ug/kg	3.55	--	1	A
Toxaphene	ND		ug/kg	17.8	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DBOB	77		30-150	A
BZ 198	75		30-150	A
DBOB	74		30-150	B
BZ 198	76		30-150	B



Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/05/15 21:39
Analyst: SF

Extraction Method: EPA 3570
Extraction Date: 03/04/15 09:30
Cleanup Method: EPA 3630
Cleanup Date: 03/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
RIM Organochlorine Pesticides - Mansfield Lab for sample(s): 01-20 Batch: WG766032-1						
Hexachlorobenzene	ND		ug/kg	1.00	--	A
gamma-BHC	ND		ug/kg	0.500	--	A
Heptachlor	ND		ug/kg	0.500	--	A
Aldrin	ND		ug/kg	0.500	--	A
trans-Chlordane	ND		ug/kg	0.500	--	A
Endosulfan I	ND		ug/kg	0.500	--	A
cis-Chlordane	ND		ug/kg	0.500	--	A
trans-Nonachlor	ND		ug/kg	0.500	--	A
4,4'-DDE	ND		ug/kg	0.500	--	A
Dieldrin	ND		ug/kg	0.500	--	A
Endrin	ND		ug/kg	0.500	--	A
Endosulfan II	ND		ug/kg	0.500	--	A
4,4'-DDD	ND		ug/kg	0.500	--	A
cis-Nonachlor	ND		ug/kg	0.500	--	A
4,4'-DDT	ND		ug/kg	0.500	--	A
Methoxychlor	ND		ug/kg	5.00	--	A
Toxaphene	ND		ug/kg	25.1	--	A
Heptachlor epoxide	ND		ug/kg	1.00	--	B
Oxychlordane	ND		ug/kg	1.00	--	B

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
DBOB	64		30-150	A
BZ 198	82		30-150	A
DBOB	59		30-150	B
BZ 198	84		30-150	B



Lab Control Sample Analysis

Batch Quality Control

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
RIM Organochlorine Pesticides - Mansfield Lab Associated sample(s): 01-20 Batch: WG766032-2 WG766032-3									
Hexachlorobenzene	57		61		50-120	7		30	A
gamma-BHC	71		74		50-120	4		30	A
Heptachlor	68		71		50-120	4		30	A
Aldrin	68		71		50-120	4		30	A
trans-Chlordane	73		77		50-120	5		30	A
Endosulfan I	71		76		50-120	7		30	A
cis-Chlordane	72		75		50-120	4		30	A
trans-Nonachlor	75		78		50-120	4		30	A
4,4'-DDE	83		89		50-120	7		30	A
Dieldrin	72		79		50-120	9		30	A
Endrin	71		75		50-120	5		30	A
4,4'-DDD	82		85		50-120	4		30	A
cis-Nonachlor	72		76		50-120	5		30	A
4,4'-DDT	70		78		50-120	11		30	A
Methoxychlor	68		76		50-120	11		30	A

Lab Control Sample Analysis Batch Quality Control

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
-----------	-------------------------	-------------	--------------------------	-------------	----------------------------	------------	-------------	----------------------

RIM Organochlorine Pesticides - Mansfield Lab Associated sample(s): 01-20 Batch: WG766032-2 WG766032-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
DBOB	59		60		30-150	A
BZ 198	81		85		30-150	A
DBOB	52		56		30-150	B
BZ 198	82		84		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
RIM Organochlorine Pesticides - Mansfield Lab Associated sample(s): 01-20 Batch: WG766032-2 WG766032-3									
Heptachlor epoxide	65		69		50-120	6		30	B
Oxychlorane	67		70		50-120	4		30	B
Endosulfan II	66		71		50-120	7		30	B

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DBOB	59		60		30-150	A
BZ 198	81		85		30-150	A
DBOB	52		56		30-150	B
BZ 198	82		84		30-150	B



Matrix Spike Analysis

Batch Quality Control

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>	<i>Column</i>
RIM Organochlorine Pesticides - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG766032-4 WG766032-5 QC Sample: L1503503-07 Client ID: L-62													
Hexachlorobenzene	ND	77.7	71.0	91		70.3	90		50-120	1		30	A
gamma-BHC	ND	77.7	76.2	98		82.1	105		50-120	7		30	A
Heptachlor	ND	77.7	71.5	92		73.0	94		50-120	2		30	A
Aldrin	ND	77.7	75.9	98		79.9	102		50-120	5		30	A
Heptachlor epoxide	ND	77.7	68.6	88		74.9	96		50-120	9		30	B
Oxychlorane	0.908	77.7	71.1	90		76.0	96		50-120	7		30	B
trans-Chlordane	ND	77.7	76.8	99		81.2	104		50-120	6		30	A
Endosulfan I	ND	77.7	74.9	96		78.4	101		50-120	5		30	A
cis-Chlordane	ND	77.7	76.4	98		79.9	102		50-120	4		30	A
trans-Nonachlor	ND	77.7	77.2	99		80.8	104		50-120	5		30	A
4,4'-DDE	0.437	77.7	75.9	97		83.2	106		50-120	9		30	B
Dieldrin	ND	77.7	76.6	99		78.7	101		50-120	3		30	A
Endrin	ND	77.7	73.9	95		77.1	99		50-120	4		30	A
Endosulfan II	ND	77.7	63.9	82		67.4	86		50-120	5		30	B
4,4'-DDD	ND	77.7	81.2	105		89.9	115		50-120	10		30	A
cis-Nonachlor	ND	77.7	71.4	92		75.3	97		50-120	5		30	A
4,4'-DDT	0.454	77.7	64.4	82		70.7	90		50-120	9		30	A
Methoxychlor	ND	77.7	65.2	84		68.8	88		50-120	5		30	A

Matrix Spike Analysis

Batch Quality Control

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>MS Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>MSD Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>RPD Qual</i>	<i>RPD Limits</i>
------------------	----------------------	-----------------	-----------------	---------------------	----------------	------------------	----------------------	-----------------	------------------------	------------	-----------------	-------------------

RIM Organochlorine Pesticides - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG766032-4 WG766032-5 QC Sample: L1503503-07 Client ID: L-62

<i>Surrogate</i>	<i>MS</i>		<i>MSD</i>		<i>Acceptance Criteria</i>	<i>Column</i>
	<i>% Recovery</i>	<i>Qualifier</i>	<i>% Recovery</i>	<i>Qualifier</i>		
BZ 198	90		94		30-150	A
DBOB	90		94		30-150	A
BZ 198	84		91		30-150	B
DBOB	84		89		30-150	B



Lab Duplicate Analysis

Batch Quality Control

Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
RIM Organochlorine Pesticides - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG766032-6 QC Sample: L1503503-07 Client ID: L-62						
Hexachlorobenzene	ND	ND	ug/kg	NC		30 A
gamma-BHC	ND	ND	ug/kg	NC		30 A
Heptachlor	ND	ND	ug/kg	NC		30 A
Aldrin	ND	ND	ug/kg	NC		30 A
Heptachlor epoxide	ND	ND	ug/kg	NC		30 B
Oxychlordane	0.908	ND	ug/kg	NC		30 B
trans-Chlordane	ND	ND	ug/kg	NC		30 A
Endosulfan I	ND	ND	ug/kg	NC		30 A
cis-Chlordane	ND	ND	ug/kg	NC		30 A
trans-Nonachlor	ND	ND	ug/kg	NC		30 A
4,4'-DDE	0.437	ND	ug/kg	NC		30 B
Dieldrin	ND	ND	ug/kg	NC		30 A
Endrin	ND	ND	ug/kg	NC		30 A
Endosulfan II	ND	ND	ug/kg	NC		30 A
4,4'-DDD	ND	ND	ug/kg	NC		30 A
cis-Nonachlor	ND	ND	ug/kg	NC		30 A
4,4'-DDT	0.454	ND	ug/kg	NC		30 A
Methoxychlor	ND	ND	ug/kg	NC		30 A
Toxaphene	ND	ND	ug/kg	NC		30 A

Lab Duplicate Analysis

Batch Quality Control

Project Name: LIS-USACOE RIM DREDGE

Project Number: Not Specified

Lab Number: L1503503

Report Date: 03/16/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
-----------	---------------	------------------	-------	-----	------------

RIM Organochlorine Pesticides - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG766032-6 QC Sample: L1503503-07 Client ID: L-62

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria	Column
DBOB	80		85		30-150	A
BZ 198	79		80		30-150	A
DBOB	68		73		30-150	B
BZ 198	81		81		30-150	B



Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

S.R.M. Standard Quality Control

Standard Reference Material (SRM): WG766032-7

Parameter	% Recovery	Qual	QC Criteria
Hexachlorobenzene	56		40-140
cis-Chlordane	78		40-140
trans-Nonachlor	316	Q	40-140
DBOB (Surrogate)	47		30-150
DBOB (Surrogate)	49		30-150
BZ 198 (Surrogate)	60		30-150
BZ 198 (Surrogate)	134		30-150

METALS



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-01

Date Collected: 02/24/15 11:22

Client ID: L-56

Date Received: 02/24/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Matrix: Sediment

Percent Solids: 70%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	5.22		mg/kg	0.069	--	2	03/03/15 11:34	03/04/15 15:10	EPA 3050B	1,6020A	PD
Cadmium, Total	0.062		mg/kg	0.028	--	2	03/03/15 11:34	03/04/15 15:10	EPA 3050B	1,6020A	PD
Chromium, Total	18.4		mg/kg	0.278	--	2	03/03/15 11:34	03/04/15 15:10	EPA 3050B	1,6020A	PD
Copper, Total	14.7		mg/kg	0.278	--	2	03/03/15 11:34	03/04/15 15:10	EPA 3050B	1,6020A	PD
Lead, Total	8.09		mg/kg	0.083	--	2	03/03/15 11:34	03/04/15 15:10	EPA 3050B	1,6020A	PD
Mercury, Total	ND		mg/kg	0.017	--	5	03/03/15 11:33	03/06/15 11:14	EPA 7474	1,7474	PD
Nickel, Total	18.6		mg/kg	0.139	--	2	03/03/15 11:34	03/04/15 15:10	EPA 3050B	1,6020A	PD
Zinc, Total	47.4		mg/kg	1.39	--	2	03/03/15 11:34	03/04/15 15:10	EPA 3050B	1,6020A	PD



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-02

Date Collected: 02/24/15 12:01

Client ID: L-55

Date Received: 02/24/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Matrix: Sediment

Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.15		mg/kg	0.057	--	2	03/03/15 11:34	03/04/15 15:12	EPA 3050B	1,6020A	PD
Cadmium, Total	ND		mg/kg	0.023	--	2	03/03/15 11:34	03/04/15 15:12	EPA 3050B	1,6020A	PD
Chromium, Total	4.56		mg/kg	0.228	--	2	03/03/15 11:34	03/04/15 15:12	EPA 3050B	1,6020A	PD
Copper, Total	2.18		mg/kg	0.228	--	2	03/03/15 11:34	03/04/15 15:12	EPA 3050B	1,6020A	PD
Lead, Total	2.93		mg/kg	0.069	--	2	03/03/15 11:34	03/04/15 15:12	EPA 3050B	1,6020A	PD
Mercury, Total	ND		mg/kg	0.015	--	5	03/03/15 11:33	03/06/15 11:17	EPA 7474	1,7474	PD
Nickel, Total	4.54		mg/kg	0.114	--	2	03/03/15 11:34	03/04/15 15:12	EPA 3050B	1,6020A	PD
Zinc, Total	13.9		mg/kg	1.14	--	2	03/03/15 11:34	03/04/15 15:12	EPA 3050B	1,6020A	PD



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-03

Date Collected: 02/24/15 12:35

Client ID: L-54

Date Received: 02/24/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Matrix: Sediment

Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.29		mg/kg	0.055	--	2	03/03/15 11:34	03/04/15 15:13	EPA 3050B	1,6020A	PD
Cadmium, Total	ND		mg/kg	0.022	--	2	03/03/15 11:34	03/04/15 15:13	EPA 3050B	1,6020A	PD
Chromium, Total	6.58		mg/kg	0.221	--	2	03/03/15 11:34	03/04/15 15:13	EPA 3050B	1,6020A	PD
Copper, Total	3.25		mg/kg	0.221	--	2	03/03/15 11:34	03/04/15 15:13	EPA 3050B	1,6020A	PD
Lead, Total	4.55		mg/kg	0.066	--	2	03/03/15 11:34	03/04/15 15:13	EPA 3050B	1,6020A	PD
Mercury, Total	ND		mg/kg	0.015	--	5	03/03/15 11:33	03/06/15 11:19	EPA 7474	1,7474	PD
Nickel, Total	6.61		mg/kg	0.111	--	2	03/03/15 11:34	03/04/15 15:13	EPA 3050B	1,6020A	PD
Zinc, Total	22.4		mg/kg	1.11	--	2	03/03/15 11:34	03/04/15 15:13	EPA 3050B	1,6020A	PD



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-04

Date Collected: 02/24/15 13:01

Client ID: L-53

Date Received: 02/24/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Matrix: Sediment

Percent Solids: 62%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.38		mg/kg	0.075	--	2	03/03/15 11:34	03/04/15 15:17	EPA 3050B	1,6020A	PD
Cadmium, Total	0.109		mg/kg	0.030	--	2	03/03/15 11:34	03/04/15 15:17	EPA 3050B	1,6020A	PD
Chromium, Total	15.5		mg/kg	0.300	--	2	03/03/15 11:34	03/04/15 15:17	EPA 3050B	1,6020A	PD
Copper, Total	19.1		mg/kg	0.300	--	2	03/03/15 11:34	03/04/15 15:17	EPA 3050B	1,6020A	PD
Lead, Total	12.0		mg/kg	0.090	--	2	03/03/15 11:34	03/04/15 15:17	EPA 3050B	1,6020A	PD
Mercury, Total	0.062		mg/kg	0.018	--	5	03/03/15 11:33	03/06/15 11:22	EPA 7474	1,7474	PD
Nickel, Total	8.02		mg/kg	0.150	--	2	03/03/15 11:34	03/04/15 15:17	EPA 3050B	1,6020A	PD
Zinc, Total	57.4		mg/kg	1.50	--	2	03/03/15 11:34	03/04/15 15:17	EPA 3050B	1,6020A	PD



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-05

Date Collected: 02/24/15 13:52

Client ID: L-52

Date Received: 02/24/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Matrix: Sediment

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.22		mg/kg	0.059	--	2	03/03/15 11:34	03/04/15 15:18	EPA 3050B	1,6020A	PD
Cadmium, Total	ND		mg/kg	0.024	--	2	03/03/15 11:34	03/04/15 15:18	EPA 3050B	1,6020A	PD
Chromium, Total	4.38		mg/kg	0.236	--	2	03/03/15 11:34	03/04/15 15:18	EPA 3050B	1,6020A	PD
Copper, Total	2.50		mg/kg	0.236	--	2	03/03/15 11:34	03/04/15 15:18	EPA 3050B	1,6020A	PD
Lead, Total	3.03		mg/kg	0.071	--	2	03/03/15 11:34	03/04/15 15:18	EPA 3050B	1,6020A	PD
Mercury, Total	ND		mg/kg	0.015	--	5	03/03/15 11:33	03/06/15 11:24	EPA 7474	1,7474	PD
Nickel, Total	5.33		mg/kg	0.118	--	2	03/03/15 11:34	03/04/15 15:18	EPA 3050B	1,6020A	PD
Zinc, Total	17.9		mg/kg	1.18	--	2	03/03/15 11:34	03/04/15 15:18	EPA 3050B	1,6020A	PD



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-06

Date Collected: 02/24/15 14:20

Client ID: L-51

Date Received: 02/24/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Matrix: Sediment

Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.72		mg/kg	0.056	--	2	03/03/15 11:34	03/04/15 15:19	EPA 3050B	1,6020A	PD
Cadmium, Total	ND		mg/kg	0.023	--	2	03/03/15 11:34	03/04/15 15:19	EPA 3050B	1,6020A	PD
Chromium, Total	3.86		mg/kg	0.225	--	2	03/03/15 11:34	03/04/15 15:19	EPA 3050B	1,6020A	PD
Copper, Total	2.02		mg/kg	0.225	--	2	03/03/15 11:34	03/04/15 15:19	EPA 3050B	1,6020A	PD
Lead, Total	2.99		mg/kg	0.068	--	2	03/03/15 11:34	03/04/15 15:19	EPA 3050B	1,6020A	PD
Mercury, Total	ND		mg/kg	0.015	--	5	03/03/15 11:33	03/06/15 11:27	EPA 7474	1,7474	PD
Nickel, Total	5.02		mg/kg	0.112	--	2	03/03/15 11:34	03/04/15 15:19	EPA 3050B	1,6020A	PD
Zinc, Total	14.0		mg/kg	1.12	--	2	03/03/15 11:34	03/04/15 15:19	EPA 3050B	1,6020A	PD



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-07

Date Collected: 02/24/15 14:35

Client ID: L-62

Date Received: 02/24/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Matrix: Sediment

Percent Solids: 63%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.41		mg/kg	0.072	--	2	03/03/15 11:34	03/04/15 15:21	EPA 3050B	1,6020A	PD
Cadmium, Total	0.110		mg/kg	0.029	--	2	03/03/15 11:34	03/04/15 15:21	EPA 3050B	1,6020A	PD
Chromium, Total	16.9		mg/kg	0.287	--	2	03/03/15 11:34	03/04/15 15:21	EPA 3050B	1,6020A	PD
Copper, Total	20.4		mg/kg	0.287	--	2	03/03/15 11:34	03/04/15 15:21	EPA 3050B	1,6020A	PD
Lead, Total	12.1		mg/kg	0.086	--	2	03/03/15 11:34	03/04/15 15:21	EPA 3050B	1,6020A	PD
Mercury, Total	0.054		mg/kg	0.019	--	5	03/03/15 11:33	03/06/15 11:29	EPA 7474	1,7474	PD
Nickel, Total	8.41		mg/kg	0.144	--	2	03/03/15 11:34	03/04/15 15:21	EPA 3050B	1,6020A	PD
Zinc, Total	69.5		mg/kg	1.44	--	2	03/03/15 11:34	03/04/15 15:21	EPA 3050B	1,6020A	PD



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-08

Date Collected: 02/25/15 09:33

Client ID: L41

Date Received: 02/26/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Matrix: Sediment

Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.06		mg/kg	0.058	--	2	03/03/15 11:34	03/04/15 15:27	EPA 3050B	1,6020A	PD
Cadmium, Total	0.033		mg/kg	0.023	--	2	03/03/15 11:34	03/04/15 15:27	EPA 3050B	1,6020A	PD
Chromium, Total	6.10		mg/kg	0.233	--	2	03/03/15 11:34	03/04/15 15:27	EPA 3050B	1,6020A	PD
Copper, Total	3.39		mg/kg	0.233	--	2	03/03/15 11:34	03/04/15 15:27	EPA 3050B	1,6020A	PD
Lead, Total	4.24		mg/kg	0.070	--	2	03/03/15 11:34	03/04/15 15:27	EPA 3050B	1,6020A	PD
Mercury, Total	ND		mg/kg	0.015	--	5	03/03/15 11:33	03/06/15 11:44	EPA 7474	1,7474	PD
Nickel, Total	4.08		mg/kg	0.116	--	2	03/03/15 11:34	03/04/15 15:27	EPA 3050B	1,6020A	PD
Zinc, Total	20.2		mg/kg	1.16	--	2	03/03/15 11:34	03/04/15 15:27	EPA 3050B	1,6020A	PD



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-09

Date Collected: 02/25/15 10:05

Client ID: L32

Date Received: 02/26/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Matrix: Sediment

Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.71		mg/kg	0.061	--	2	03/03/15 11:34	03/04/15 15:28	EPA 3050B	1,6020A	PD
Cadmium, Total	ND		mg/kg	0.024	--	2	03/03/15 11:34	03/04/15 15:28	EPA 3050B	1,6020A	PD
Chromium, Total	6.70		mg/kg	0.243	--	2	03/03/15 11:34	03/04/15 15:28	EPA 3050B	1,6020A	PD
Copper, Total	2.85		mg/kg	0.243	--	2	03/03/15 11:34	03/04/15 15:28	EPA 3050B	1,6020A	PD
Lead, Total	5.07		mg/kg	0.073	--	2	03/03/15 11:34	03/04/15 15:28	EPA 3050B	1,6020A	PD
Mercury, Total	ND		mg/kg	0.015	--	5	03/03/15 11:33	03/06/15 11:47	EPA 7474	1,7474	PD
Nickel, Total	4.04		mg/kg	0.122	--	2	03/03/15 11:34	03/04/15 15:28	EPA 3050B	1,6020A	PD
Zinc, Total	26.8		mg/kg	1.22	--	2	03/03/15 11:34	03/04/15 15:28	EPA 3050B	1,6020A	PD



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-10

Date Collected: 02/25/15 10:19

Client ID: L35

Date Received: 02/26/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Matrix: Sediment

Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.15		mg/kg	0.065	--	2	03/03/15 11:34	03/04/15 15:32	EPA 3050B	1,6020A	PD
Cadmium, Total	ND		mg/kg	0.026	--	2	03/03/15 11:34	03/04/15 15:32	EPA 3050B	1,6020A	PD
Chromium, Total	3.49		mg/kg	0.258	--	2	03/03/15 11:34	03/04/15 15:32	EPA 3050B	1,6020A	PD
Copper, Total	2.01		mg/kg	0.258	--	2	03/03/15 11:34	03/04/15 15:32	EPA 3050B	1,6020A	PD
Lead, Total	2.83		mg/kg	0.078	--	2	03/03/15 11:34	03/04/15 15:32	EPA 3050B	1,6020A	PD
Mercury, Total	ND		mg/kg	0.015	--	5	03/03/15 11:33	03/06/15 11:49	EPA 7474	1,7474	PD
Nickel, Total	2.97		mg/kg	0.129	--	2	03/03/15 11:34	03/04/15 15:32	EPA 3050B	1,6020A	PD
Zinc, Total	11.7		mg/kg	1.29	--	2	03/03/15 11:34	03/04/15 15:32	EPA 3050B	1,6020A	PD



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-11

Date Collected: 02/25/15 10:35

Client ID: L33

Date Received: 02/26/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Matrix: Sediment

Percent Solids: 70%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.22		mg/kg	0.064	--	2	03/03/15 11:34	03/04/15 15:33	EPA 3050B	1,6020A	PD
Cadmium, Total	0.031		mg/kg	0.026	--	2	03/03/15 11:34	03/04/15 15:33	EPA 3050B	1,6020A	PD
Chromium, Total	7.23		mg/kg	0.256	--	2	03/03/15 11:34	03/04/15 15:33	EPA 3050B	1,6020A	PD
Copper, Total	4.75		mg/kg	0.256	--	2	03/03/15 11:34	03/04/15 15:33	EPA 3050B	1,6020A	PD
Lead, Total	5.44		mg/kg	0.077	--	2	03/03/15 11:34	03/04/15 15:33	EPA 3050B	1,6020A	PD
Mercury, Total	ND		mg/kg	0.016	--	5	03/03/15 11:33	03/06/15 11:51	EPA 7474	1,7474	PD
Nickel, Total	4.75		mg/kg	0.128	--	2	03/03/15 11:34	03/04/15 15:33	EPA 3050B	1,6020A	PD
Zinc, Total	21.7		mg/kg	1.28	--	2	03/03/15 11:34	03/04/15 15:33	EPA 3050B	1,6020A	PD



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-12

Date Collected: 02/25/15 11:00

Client ID: L31

Date Received: 02/26/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Matrix: Sediment

Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.35		mg/kg	0.064	--	2	03/03/15 11:34	03/04/15 15:35	EPA 3050B	1,6020A	PD
Cadmium, Total	ND		mg/kg	0.026	--	2	03/03/15 11:34	03/04/15 15:35	EPA 3050B	1,6020A	PD
Chromium, Total	6.28		mg/kg	0.255	--	2	03/03/15 11:34	03/04/15 15:35	EPA 3050B	1,6020A	PD
Copper, Total	3.20		mg/kg	0.255	--	2	03/03/15 11:34	03/04/15 15:35	EPA 3050B	1,6020A	PD
Lead, Total	4.28		mg/kg	0.077	--	2	03/03/15 11:34	03/04/15 15:35	EPA 3050B	1,6020A	PD
Mercury, Total	ND		mg/kg	0.016	--	5	03/03/15 11:33	03/06/15 11:54	EPA 7474	1,7474	PD
Nickel, Total	4.19		mg/kg	0.127	--	2	03/03/15 11:34	03/04/15 15:35	EPA 3050B	1,6020A	PD
Zinc, Total	20.1		mg/kg	1.27	--	2	03/03/15 11:34	03/04/15 15:35	EPA 3050B	1,6020A	PD



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-13

Date Collected: 02/25/15 11:19

Client ID: L34

Date Received: 02/26/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Matrix: Sediment

Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.14		mg/kg	0.057	--	2	03/03/15 11:34	03/04/15 15:36	EPA 3050B	1,6020A	PD
Cadmium, Total	ND		mg/kg	0.023	--	2	03/03/15 11:34	03/04/15 15:36	EPA 3050B	1,6020A	PD
Chromium, Total	2.71		mg/kg	0.229	--	2	03/03/15 11:34	03/04/15 15:36	EPA 3050B	1,6020A	PD
Copper, Total	1.78		mg/kg	0.229	--	2	03/03/15 11:34	03/04/15 15:36	EPA 3050B	1,6020A	PD
Lead, Total	2.77		mg/kg	0.069	--	2	03/03/15 11:34	03/04/15 15:36	EPA 3050B	1,6020A	PD
Mercury, Total	ND		mg/kg	0.015	--	5	03/03/15 11:33	03/06/15 11:56	EPA 7474	1,7474	PD
Nickel, Total	3.04		mg/kg	0.114	--	2	03/03/15 11:34	03/04/15 15:36	EPA 3050B	1,6020A	PD
Zinc, Total	9.16		mg/kg	1.14	--	2	03/03/15 11:34	03/04/15 15:36	EPA 3050B	1,6020A	PD



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-14

Date Collected: 02/25/15 11:35

Client ID: L36

Date Received: 02/26/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Matrix: Sediment

Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.28		mg/kg	0.061	--	2	03/03/15 11:34	03/04/15 15:37	EPA 3050B	1,6020A	PD
Cadmium, Total	ND		mg/kg	0.024	--	2	03/03/15 11:34	03/04/15 15:37	EPA 3050B	1,6020A	PD
Chromium, Total	5.27		mg/kg	0.242	--	2	03/03/15 11:34	03/04/15 15:37	EPA 3050B	1,6020A	PD
Copper, Total	3.28		mg/kg	0.242	--	2	03/03/15 11:34	03/04/15 15:37	EPA 3050B	1,6020A	PD
Lead, Total	3.60		mg/kg	0.073	--	2	03/03/15 11:34	03/04/15 15:37	EPA 3050B	1,6020A	PD
Mercury, Total	ND		mg/kg	0.016	--	5	03/03/15 11:33	03/06/15 11:59	EPA 7474	1,7474	PD
Nickel, Total	3.36		mg/kg	0.121	--	2	03/03/15 11:34	03/04/15 15:37	EPA 3050B	1,6020A	PD
Zinc, Total	15.3		mg/kg	1.21	--	2	03/03/15 11:34	03/04/15 15:37	EPA 3050B	1,6020A	PD



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-15

Date Collected: 02/25/15 12:36

Client ID: L37

Date Received: 02/26/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Matrix: Sediment

Percent Solids: 71%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.36		mg/kg	0.068	--	2	03/03/15 11:34	03/04/15 15:38	EPA 3050B	1,6020A	PD
Cadmium, Total	0.051		mg/kg	0.027	--	2	03/03/15 11:34	03/04/15 15:38	EPA 3050B	1,6020A	PD
Chromium, Total	9.67		mg/kg	0.270	--	2	03/03/15 11:34	03/04/15 15:38	EPA 3050B	1,6020A	PD
Copper, Total	5.82		mg/kg	0.270	--	2	03/03/15 11:34	03/04/15 15:38	EPA 3050B	1,6020A	PD
Lead, Total	6.30		mg/kg	0.081	--	2	03/03/15 11:34	03/04/15 15:38	EPA 3050B	1,6020A	PD
Mercury, Total	0.019		mg/kg	0.017	--	5	03/03/15 11:33	03/06/15 12:01	EPA 7474	1,7474	PD
Nickel, Total	5.97		mg/kg	0.135	--	2	03/03/15 11:34	03/04/15 15:38	EPA 3050B	1,6020A	PD
Zinc, Total	29.8		mg/kg	1.35	--	2	03/03/15 11:34	03/04/15 15:38	EPA 3050B	1,6020A	PD



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-16

Date Collected: 02/25/15 13:06

Client ID: L38

Date Received: 02/26/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Matrix: Sediment

Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.07		mg/kg	0.064	--	2	03/03/15 11:34	03/04/15 15:40	EPA 3050B	1,6020A	PD
Cadmium, Total	ND		mg/kg	0.026	--	2	03/03/15 11:34	03/04/15 15:40	EPA 3050B	1,6020A	PD
Chromium, Total	8.23		mg/kg	0.256	--	2	03/03/15 11:34	03/04/15 15:40	EPA 3050B	1,6020A	PD
Copper, Total	3.78		mg/kg	0.256	--	2	03/03/15 11:34	03/04/15 15:40	EPA 3050B	1,6020A	PD
Lead, Total	5.69		mg/kg	0.077	--	2	03/03/15 11:34	03/04/15 15:40	EPA 3050B	1,6020A	PD
Mercury, Total	ND		mg/kg	0.017	--	5	03/03/15 11:33	03/06/15 12:09	EPA 7474	1,7474	PD
Nickel, Total	4.66		mg/kg	0.128	--	2	03/03/15 11:34	03/04/15 15:40	EPA 3050B	1,6020A	PD
Zinc, Total	27.9		mg/kg	1.28	--	2	03/03/15 11:34	03/04/15 15:40	EPA 3050B	1,6020A	PD



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-17

Date Collected: 02/25/15 13:30

Client ID: L40

Date Received: 02/26/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Matrix: Sediment

Percent Solids: 66%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.91		mg/kg	0.066	--	2	03/03/15 11:34	03/04/15 15:41	EPA 3050B	1,6020A	PD
Cadmium, Total	ND		mg/kg	0.027	--	2	03/03/15 11:34	03/04/15 15:41	EPA 3050B	1,6020A	PD
Chromium, Total	7.66		mg/kg	0.265	--	2	03/03/15 11:34	03/04/15 15:41	EPA 3050B	1,6020A	PD
Copper, Total	4.17		mg/kg	0.265	--	2	03/03/15 11:34	03/04/15 15:41	EPA 3050B	1,6020A	PD
Lead, Total	5.90		mg/kg	0.079	--	2	03/03/15 11:34	03/04/15 15:41	EPA 3050B	1,6020A	PD
Mercury, Total	ND		mg/kg	0.017	--	5	03/03/15 11:33	03/06/15 12:11	EPA 7474	1,7474	PD
Nickel, Total	5.48		mg/kg	0.132	--	2	03/03/15 11:34	03/04/15 15:41	EPA 3050B	1,6020A	PD
Zinc, Total	27.3		mg/kg	1.32	--	2	03/03/15 11:34	03/04/15 15:41	EPA 3050B	1,6020A	PD



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-18

Date Collected: 02/25/15 13:45

Client ID: L39

Date Received: 02/26/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Matrix: Sediment

Percent Solids: 71%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.17		mg/kg	0.070	--	2	03/03/15 11:34	03/04/15 15:42	EPA 3050B	1,6020A	PD
Cadmium, Total	0.033		mg/kg	0.028	--	2	03/03/15 11:34	03/04/15 15:42	EPA 3050B	1,6020A	PD
Chromium, Total	6.98		mg/kg	0.280	--	2	03/03/15 11:34	03/04/15 15:42	EPA 3050B	1,6020A	PD
Copper, Total	3.69		mg/kg	0.280	--	2	03/03/15 11:34	03/04/15 15:42	EPA 3050B	1,6020A	PD
Lead, Total	5.08		mg/kg	0.084	--	2	03/03/15 11:34	03/04/15 15:42	EPA 3050B	1,6020A	PD
Mercury, Total	ND		mg/kg	0.016	--	5	03/03/15 11:33	03/06/15 12:14	EPA 7474	1,7474	PD
Nickel, Total	4.32		mg/kg	0.140	--	2	03/03/15 11:34	03/04/15 15:42	EPA 3050B	1,6020A	PD
Zinc, Total	21.9		mg/kg	1.40	--	2	03/03/15 11:34	03/04/15 15:42	EPA 3050B	1,6020A	PD



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-19

Date Collected: 02/25/15 14:24

Client ID: L26A

Date Received: 02/26/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Matrix: Sediment

Percent Solids: 65%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.79		mg/kg	0.072	--	2	03/03/15 11:34	03/04/15 15:43	EPA 3050B	1,6020A	PD
Cadmium, Total	0.053		mg/kg	0.029	--	2	03/03/15 11:34	03/04/15 15:43	EPA 3050B	1,6020A	PD
Chromium, Total	11.0		mg/kg	0.288	--	2	03/03/15 11:34	03/04/15 15:43	EPA 3050B	1,6020A	PD
Copper, Total	6.50		mg/kg	0.288	--	2	03/03/15 11:34	03/04/15 15:43	EPA 3050B	1,6020A	PD
Lead, Total	7.76		mg/kg	0.087	--	2	03/03/15 11:34	03/04/15 15:43	EPA 3050B	1,6020A	PD
Mercury, Total	0.024		mg/kg	0.018	--	5	03/03/15 11:33	03/06/15 12:16	EPA 7474	1,7474	PD
Nickel, Total	6.64		mg/kg	0.144	--	2	03/03/15 11:34	03/04/15 15:43	EPA 3050B	1,6020A	PD
Zinc, Total	32.1		mg/kg	1.44	--	2	03/03/15 11:34	03/04/15 15:43	EPA 3050B	1,6020A	PD



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-20

Date Collected: 02/25/15 14:30

Client ID: L26B

Date Received: 02/26/15

Sample Location: EASTERN LONG ISLAND SOUND

Field Prep: Not Specified

Matrix: Sediment

Percent Solids: 67%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	1.98		mg/kg	0.067	--	2	03/03/15 11:34	03/04/15 15:47	EPA 3050B	1,6020A	PD
Cadmium, Total	ND		mg/kg	0.027	--	2	03/03/15 11:34	03/04/15 15:47	EPA 3050B	1,6020A	PD
Chromium, Total	6.62		mg/kg	0.266	--	2	03/03/15 11:34	03/04/15 15:47	EPA 3050B	1,6020A	PD
Copper, Total	3.50		mg/kg	0.266	--	2	03/03/15 11:34	03/04/15 15:47	EPA 3050B	1,6020A	PD
Lead, Total	4.69		mg/kg	0.080	--	2	03/03/15 11:34	03/04/15 15:47	EPA 3050B	1,6020A	PD
Mercury, Total	ND		mg/kg	0.017	--	5	03/03/15 11:33	03/06/15 12:19	EPA 7474	1,7474	PD
Nickel, Total	4.06		mg/kg	0.133	--	2	03/03/15 11:34	03/04/15 15:47	EPA 3050B	1,6020A	PD
Zinc, Total	21.2		mg/kg	1.33	--	2	03/03/15 11:34	03/04/15 15:47	EPA 3050B	1,6020A	PD



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-20 Batch: WG765760-1									
Arsenic, Total	ND	mg/kg	0.050	--	2	03/03/15 11:34	03/04/15 15:08	1,6020A	PD
Cadmium, Total	ND	mg/kg	0.020	--	2	03/03/15 11:34	03/04/15 15:08	1,6020A	PD
Chromium, Total	ND	mg/kg	0.200	--	2	03/03/15 11:34	03/04/15 15:08	1,6020A	PD
Copper, Total	ND	mg/kg	0.200	--	2	03/03/15 11:34	03/04/15 15:08	1,6020A	PD
Lead, Total	ND	mg/kg	0.060	--	2	03/03/15 11:34	03/04/15 15:08	1,6020A	PD
Nickel, Total	ND	mg/kg	0.100	--	2	03/03/15 11:34	03/04/15 15:08	1,6020A	PD
Zinc, Total	ND	mg/kg	1.00	--	2	03/03/15 11:34	03/04/15 15:08	1,6020A	PD

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-20 Batch: WG765768-1									
Mercury, Total	ND	mg/kg	0.013	--	5	03/03/15 11:33	03/06/15 11:09	1,7474	PD

Prep Information

Digestion Method: EPA 7474



Lab Control Sample Analysis

Batch Quality Control

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01-20 Batch: WG765760-2 SRM Lot Number: A2METSPIKE								
Arsenic, Total	92		-		75-125	-		20
Cadmium, Total	97		-		75-125	-		20
Chromium, Total	103		-		75-125	-		20
Copper, Total	100		-		75-125	-		20
Lead, Total	104		-		75-125	-		20
Nickel, Total	101		-		75-125	-		20
Zinc, Total	91		-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-20 Batch: WG765768-2 SRM Lot Number: HPHGAF								
Mercury, Total	90		-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG765760-4 WG765760-5 QC Sample: L1503503-07 Client ID: L-62											
Arsenic, Total	3.41	295	284	95		277	92		75-125	2	20
Cadmium, Total	0.110	148	140	95		133	89		75-125	5	20
Chromium, Total	16.9	295	328	105		325	103		75-125	1	20
Copper, Total	20.4	295	316	100		310	97		75-125	2	20
Lead, Total	12.1	295	291	94		294	94		75-125	1	20
Nickel, Total	8.41	295	270	88		305	100		75-125	12	20
Zinc, Total	69.5	295	328	88		340	91		75-125	4	20
Total Metals - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG765768-4 WG765768-5 QC Sample: L1503503-07 Client ID: L-62											
Mercury, Total	0.054	0.914	0.845	86		0.871	89		80-120	3	20



Lab Duplicate Analysis

Batch Quality Control

Project Name: LIS-USACOE RIM DREDGE

Project Number: Not Specified

Lab Number: L1503503

Report Date: 03/16/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG765760-3 QC Sample: L1503503-07 Client ID: L-62						
Arsenic, Total	3.41	3.67	mg/kg	7		20
Cadmium, Total	0.110	0.120	mg/kg	9		20
Chromium, Total	16.9	17.8	mg/kg	5		20
Copper, Total	20.4	22.0	mg/kg	8		20
Lead, Total	12.1	13.2	mg/kg	9		20
Nickel, Total	8.41	8.83	mg/kg	5		20
Zinc, Total	69.5	78.1	mg/kg	12		20
Total Metals - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG765768-3 QC Sample: L1503503-07 Client ID: L-62						
Mercury, Total	0.054	0.056	mg/kg	3		20

Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

S.R.M. Standard Quality Control

Standard Reference Material (SRM): WG765760-6

Parameter	% Recovery	Qual	QC Criteria
Arsenic, Total	101		81-120
Cadmium, Total	105		82-118
Chromium, Total	102		79-120
Copper, Total	105		81-119
Lead, Total	105		81-118
Nickel, Total	107		82-118
Zinc, Total	105		80-120

Project Name: LIS-USACOE RIM DREDGE**Lab Number:** L1503503**Project Number:** Not Specified**Report Date:** 03/16/15**S.R.M. Standard Quality Control**

Standard Reference Material (SRM): WG765768-6

Parameter	% Recovery	Qual	QC Criteria
Mercury, Total	90		71-129

INORGANICS & MISCELLANEOUS

Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-01
Client ID: L-56
Sample Location: EASTERN LONG ISLAND SOUND
Matrix: Sediment

Date Collected: 02/24/15 11:22
Date Received: 02/24/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	0.324		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Total Organic Carbon (Rep2)	0.299		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Grain Size Analysis - Mansfield Lab										
% Total Gravel	13.2		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Coarse Sand	6.30		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Medium Sand	21.4		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Fine Sand	23.2		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Total Fines	35.9		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
General Chemistry - Mansfield Lab										
Solids, Total	69.9		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC
Moisture	30.1		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC



Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-02
Client ID: L-55
Sample Location: EASTERN LONG ISLAND SOUND
Matrix: Sediment

Date Collected: 02/24/15 12:01
Date Received: 02/24/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	0.109		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Total Organic Carbon (Rep2)	0.165		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Grain Size Analysis - Mansfield Lab										
% Total Gravel	13.1		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Coarse Sand	14.7		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Medium Sand	48.7		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Fine Sand	20.6		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Total Fines	2.90		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
General Chemistry - Mansfield Lab										
Solids, Total	80.4		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC
Moisture	19.6		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC



Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-03
Client ID: L-54
Sample Location: EASTERN LONG ISLAND SOUND
Matrix: Sediment

Date Collected: 02/24/15 12:35
Date Received: 02/24/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	0.378		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Total Organic Carbon (Rep2)	0.449		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Grain Size Analysis - Mansfield Lab										
% Total Gravel	6.50		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Coarse Sand	10.2		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Medium Sand	49.5		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Fine Sand	27.9		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Total Fines	5.90		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
General Chemistry - Mansfield Lab										
Solids, Total	78.6		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC
Moisture	21.4		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC



Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-04
Client ID: L-53
Sample Location: EASTERN LONG ISLAND SOUND
Matrix: Sediment

Date Collected: 02/24/15 13:01
Date Received: 02/24/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	0.935		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Total Organic Carbon (Rep2)	0.980		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Grain Size Analysis - Mansfield Lab										
% Total Gravel	28.1		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Coarse Sand	9.20		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Medium Sand	21.7		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Fine Sand	13.1		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Total Fines	27.9		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
General Chemistry - Mansfield Lab										
Solids, Total	61.8		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC
Moisture	38.2		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC



Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-05
Client ID: L-52
Sample Location: EASTERN LONG ISLAND SOUND
Matrix: Sediment

Date Collected: 02/24/15 13:52
Date Received: 02/24/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	0.129		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Total Organic Carbon (Rep2)	0.220		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Grain Size Analysis - Mansfield Lab										
% Total Gravel	19.3		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Coarse Sand	12.6		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Medium Sand	29.1		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Fine Sand	36.7		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Total Fines	2.30		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
General Chemistry - Mansfield Lab										
Solids, Total	81.3		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC
Moisture	18.7		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC



Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-06
Client ID: L-51
Sample Location: EASTERN LONG ISLAND SOUND
Matrix: Sediment

Date Collected: 02/24/15 14:20
Date Received: 02/24/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	0.224		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Total Organic Carbon (Rep2)	0.214		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Grain Size Analysis - Mansfield Lab										
% Total Gravel	5.80		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Coarse Sand	12.8		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Medium Sand	50.5		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Fine Sand	28.6		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Total Fines	2.30		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
General Chemistry - Mansfield Lab										
Solids, Total	79.4		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC
Moisture	20.6		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC



Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-07
Client ID: L-62
Sample Location: EASTERN LONG ISLAND SOUND
Matrix: Sediment

Date Collected: 02/24/15 14:35
Date Received: 02/24/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	1.41		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Total Organic Carbon (Rep2)	1.17		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Grain Size Analysis - Mansfield Lab										
% Total Gravel	27.0		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Coarse Sand	10.1		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Medium Sand	25.2		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Fine Sand	14.3		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Total Fines	23.4		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
General Chemistry - Mansfield Lab										
Solids, Total	63.3		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC
Moisture	36.7		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC



Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-08
Client ID: L41
Sample Location: EASTERN LONG ISLAND SOUND
Matrix: Sediment

Date Collected: 02/25/15 09:33
Date Received: 02/26/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	0.593		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Total Organic Carbon (Rep2)	0.583		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Grain Size Analysis - Mansfield Lab										
% Total Gravel	7.50		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Coarse Sand	9.20		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Medium Sand	26.8		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Fine Sand	46.8		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Total Fines	9.70		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
General Chemistry - Mansfield Lab										
Solids, Total	75.3		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC
Moisture	24.7		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC



Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-09
Client ID: L32
Sample Location: EASTERN LONG ISLAND SOUND
Matrix: Sediment

Date Collected: 02/25/15 10:05
Date Received: 02/26/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	0.300		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Total Organic Carbon (Rep2)	0.355		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Grain Size Analysis - Mansfield Lab										
% Total Gravel	2.30		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Coarse Sand	5.00		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Medium Sand	34.7		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Fine Sand	54.1		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Total Fines	3.90		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
General Chemistry - Mansfield Lab										
Solids, Total	77.6		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC
Moisture	22.4		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC



Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-10
Client ID: L35
Sample Location: EASTERN LONG ISLAND SOUND
Matrix: Sediment

Date Collected: 02/25/15 10:19
Date Received: 02/26/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	1.02		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Total Organic Carbon (Rep2)	1.14		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Grain Size Analysis - Mansfield Lab										
% Total Gravel	11.0		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Coarse Sand	16.4		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Medium Sand	32.0		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Fine Sand	34.5		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Total Fines	6.10		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
General Chemistry - Mansfield Lab										
Solids, Total	73.7		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC
Moisture	26.3		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC



Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-11
Client ID: L33
Sample Location: EASTERN LONG ISLAND SOUND
Matrix: Sediment

Date Collected: 02/25/15 10:35
Date Received: 02/26/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	0.993		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Total Organic Carbon (Rep2)	0.969		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Grain Size Analysis - Mansfield Lab										
% Total Gravel	4.50		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Coarse Sand	9.70		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Medium Sand	24.5		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Fine Sand	46.4		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Total Fines	14.9		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
General Chemistry - Mansfield Lab										
Solids, Total	69.6		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC
Moisture	30.4		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC



Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-12
Client ID: L31
Sample Location: EASTERN LONG ISLAND SOUND
Matrix: Sediment

Date Collected: 02/25/15 11:00
Date Received: 02/26/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	0.563		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Total Organic Carbon (Rep2)	0.602		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Grain Size Analysis - Mansfield Lab										
% Total Gravel	4.40		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Coarse Sand	4.90		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Medium Sand	20.8		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Fine Sand	54.7		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Total Fines	15.2		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
General Chemistry - Mansfield Lab										
Solids, Total	74.0		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC
Moisture	26.0		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC



Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-13
Client ID: L34
Sample Location: EASTERN LONG ISLAND SOUND
Matrix: Sediment

Date Collected: 02/25/15 11:19
Date Received: 02/26/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	1.21		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Total Organic Carbon (Rep2)	1.32		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Grain Size Analysis - Mansfield Lab										
% Total Gravel	23.1		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Coarse Sand	15.8		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Medium Sand	34.5		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Fine Sand	22.7		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Total Fines	3.90		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
General Chemistry - Mansfield Lab										
Solids, Total	77.4		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC
Moisture	22.6		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC



Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-14
Client ID: L36
Sample Location: EASTERN LONG ISLAND SOUND
Matrix: Sediment

Date Collected: 02/25/15 11:35
Date Received: 02/26/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	0.552		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Total Organic Carbon (Rep2)	0.583		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Grain Size Analysis - Mansfield Lab										
% Total Gravel	4.80		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Coarse Sand	7.30		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Medium Sand	27.1		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Fine Sand	49.3		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Total Fines	11.5		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
General Chemistry - Mansfield Lab										
Solids, Total	75.0		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC
Moisture	25.0		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC



Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-15
Client ID: L37
Sample Location: EASTERN LONG ISLAND SOUND
Matrix: Sediment

Date Collected: 02/25/15 12:36
Date Received: 02/26/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	1.00		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Total Organic Carbon (Rep2)	1.16		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Grain Size Analysis - Mansfield Lab										
% Total Gravel	8.50		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Coarse Sand	3.90		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Medium Sand	18.8		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Fine Sand	54.0		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Total Fines	14.8		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
General Chemistry - Mansfield Lab										
Solids, Total	71.1		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC
Moisture	28.9		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC



Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-16
Client ID: L38
Sample Location: EASTERN LONG ISLAND SOUND
Matrix: Sediment

Date Collected: 02/25/15 13:06
Date Received: 02/26/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	0.597		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Total Organic Carbon (Rep2)	0.731		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Grain Size Analysis - Mansfield Lab										
% Total Gravel	10.8		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Coarse Sand	4.40		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Medium Sand	18.7		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Fine Sand	57.1		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Total Fines	9.00		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
General Chemistry - Mansfield Lab										
Solids, Total	73.0		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC
Moisture	27.0		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC



Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-17
Client ID: L40
Sample Location: EASTERN LONG ISLAND SOUND
Matrix: Sediment

Date Collected: 02/25/15 13:30
Date Received: 02/26/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	1.81		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Total Organic Carbon (Rep2)	2.00		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Grain Size Analysis - Mansfield Lab										
% Total Gravel	9.00		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Coarse Sand	9.00		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Medium Sand	24.1		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Fine Sand	43.6		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Total Fines	14.3		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
General Chemistry - Mansfield Lab										
Solids, Total	65.7		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC
Moisture	34.3		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC



Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-18
Client ID: L39
Sample Location: EASTERN LONG ISLAND SOUND
Matrix: Sediment

Date Collected: 02/25/15 13:45
Date Received: 02/26/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	1.15		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Total Organic Carbon (Rep2)	1.48		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Grain Size Analysis - Mansfield Lab										
% Total Gravel	1.90		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Coarse Sand	4.50		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Medium Sand	18.7		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Fine Sand	58.5		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Total Fines	16.4		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
General Chemistry - Mansfield Lab										
Solids, Total	70.8		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC
Moisture	29.2		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC



Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-19
Client ID: L26A
Sample Location: EASTERN LONG ISLAND SOUND
Matrix: Sediment

Date Collected: 02/25/15 14:24
Date Received: 02/26/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	1.23		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Total Organic Carbon (Rep2)	0.985		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Grain Size Analysis - Mansfield Lab										
% Total Gravel	1.20		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Coarse Sand	2.90		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Medium Sand	9.30		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Fine Sand	63.9		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Total Fines	22.7		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
General Chemistry - Mansfield Lab										
Solids, Total	65.4		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC
Moisture	34.6		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC



Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

SAMPLE RESULTS

Lab ID: L1503503-20
Client ID: L26B
Sample Location: EASTERN LONG ISLAND SOUND
Matrix: Sediment

Date Collected: 02/25/15 14:30
Date Received: 02/26/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	1.67		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Total Organic Carbon (Rep2)	1.30		%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Grain Size Analysis - Mansfield Lab										
% Total Gravel	2.50		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Coarse Sand	4.60		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Medium Sand	10.3		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Fine Sand	69.2		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
% Total Fines	13.4		%	0.100	NA	1	-	03/06/15 00:00	12,D422	SE
General Chemistry - Mansfield Lab										
Solids, Total	67.0		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC
Moisture	33.0		%	0.100	--	1	-	03/03/15 12:00	30,2540G	LC



Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab for sample(s): 01-20 Batch: WG766621-1									
Total Organic Carbon (Rep1)	ND	%	0.010	--	1	-	03/05/15 10:37	1,9060	CM
Total Organic Carbon (Rep2)	ND	%	0.010	--	1	-	03/05/15 10:37	1,9060	CM



Matrix Spike Analysis
Batch Quality Control

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Organic Carbon - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG766621-4 WG766621-5 QC Sample: L1503503-07 Client ID: L-62												
Total Organic Carbon (Rep1)	1.41	1.28	2.18	60	Q	2.06	65	Q	75-125	6		25
Total Organic Carbon (Rep2)	1.17	1.24	2.23	86		2.48	136	Q	75-125	11		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG765813-1 QC Sample: L1503503-20 Client ID: L26B						
Solids, Total	67.0	67.6	%	1		10
Moisture	33	32.4	%	2		10
Total Organic Carbon - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG766621-3 QC Sample: L1503503-07 Client ID: L-62						
Total Organic Carbon (Rep1)	1.41	1.12	%	23		25
Total Organic Carbon (Rep2)	1.17	1.07	%	9		25
Grain Size Analysis - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG766710-1 QC Sample: L1503503-07 Client ID: L-62						
% Total Gravel	27.0	39.6	%	38	Q	20
% Coarse Sand	10.1	9.00	%	12		20
% Medium Sand	25.2	21.3	%	17		20
% Fine Sand	14.3	12.6	%	13		20
% Total Fines	23.4	17.5	%	29	Q	20

Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

S.R.M. Standard Quality Control

Standard Reference Material (SRM): WG76621-2

Parameter	% Recovery	Qual	QC Criteria
Total Organic Carbon (Rep1)	111		75-125
Total Organic Carbon (Rep2)	118		75-125

Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

B Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1503503-01A	Glass 250ml/8oz unpreserved	A	N/A	2.8	Y	Absent	A2-PB-6020T(180),A2-RIM-PAH/PCBCONG(14),A2-MOISTURE-2540(7),A2-NI-6020T(180),A2-ZN-6020T(180),A2-HG-7474T(28),A2-CR-6020T(180),A2-TS(7),A2-AS-6020T(180),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-RIM FORMS(),A2-PREP-3050:2T(180),A2-TOC-9060-2REPS(28),A2-CU-6020T(180),A2-RIM-PEST-8081(14)
L1503503-01B	Plastic 8oz unpreserved for Grai	A	N/A	2.8	Y	Absent	A2-HYDRO-TFINE(),A2-HYDRO-FSAND(),A2-HYDRO-MSAND(),A2-HYDRO-TGRAVEL(),A2-HYDRO-CSAND()
L1503503-02A	Glass 250ml/8oz unpreserved	A	N/A	2.8	Y	Absent	A2-PB-6020T(180),A2-RIM-PAH/PCBCONG(14),A2-MOISTURE-2540(7),A2-NI-6020T(180),A2-ZN-6020T(180),A2-HG-7474T(28),A2-CR-6020T(180),A2-TS(7),A2-AS-6020T(180),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-RIM FORMS(),A2-PREP-3050:2T(180),A2-TOC-9060-2REPS(28),A2-CU-6020T(180),A2-RIM-PEST-8081(14)
L1503503-02B	Plastic 8oz unpreserved for Grai	A	N/A	2.8	Y	Absent	A2-HYDRO-TFINE(),A2-HYDRO-FSAND(),A2-HYDRO-MSAND(),A2-HYDRO-TGRAVEL(),A2-HYDRO-CSAND()

*Values in parentheses indicate holding time in days



Project Name: LIS-USACOE RIM DREDGE

Project Number: Not Specified

Lab Number: L1503503

Report Date: 03/16/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1503503-03A	Glass 250ml/8oz unpreserved	A	N/A	2.8	Y	Absent	A2-PB-6020T(180),A2-RIM-PAH/PCBCONG(14),A2-MOISTURE-2540(7),A2-NI-6020T(180),A2-ZN-6020T(180),A2-HG-7474T(28),A2-CR-6020T(180),A2-TS(7),A2-AS-6020T(180),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-RIM FORMS(),A2-PREP-3050:2T(180),A2-TOC-9060-2REPS(28),A2-CU-6020T(180),A2-RIM-PEST-8081(14)
L1503503-03B	Plastic 8oz unpreserved for Grai	A	N/A	2.8	Y	Absent	A2-HYDRO-TFINE(),A2-HYDRO-FSAND(),A2-HYDRO-MSAND(),A2-HYDRO-TGRAVEL(),A2-HYDRO-CSAND()
L1503503-04A	Glass 250ml/8oz unpreserved	A	N/A	2.8	Y	Absent	A2-PB-6020T(180),A2-RIM-PAH/PCBCONG(14),A2-MOISTURE-2540(7),A2-NI-6020T(180),A2-ZN-6020T(180),A2-HG-7474T(28),A2-CR-6020T(180),A2-TS(7),A2-AS-6020T(180),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-RIM FORMS(),A2-PREP-3050:2T(180),A2-TOC-9060-2REPS(28),A2-CU-6020T(180),A2-RIM-PEST-8081(14)
L1503503-04B	Plastic 8oz unpreserved for Grai	A	N/A	2.8	Y	Absent	A2-HYDRO-TFINE(),A2-HYDRO-FSAND(),A2-HYDRO-MSAND(),A2-HYDRO-TGRAVEL(),A2-HYDRO-CSAND()
L1503503-05A	Glass 250ml/8oz unpreserved	A	N/A	2.8	Y	Absent	A2-PB-6020T(180),A2-RIM-PAH/PCBCONG(14),A2-MOISTURE-2540(7),A2-NI-6020T(180),A2-ZN-6020T(180),A2-HG-7474T(28),A2-CR-6020T(180),A2-TS(7),A2-AS-6020T(180),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-RIM FORMS(),A2-PREP-3050:2T(180),A2-TOC-9060-2REPS(28),A2-CU-6020T(180),A2-RIM-PEST-8081(14)
L1503503-05B	Plastic 8oz unpreserved for Grai	A	N/A	2.8	Y	Absent	A2-HYDRO-TFINE(),A2-HYDRO-FSAND(),A2-HYDRO-MSAND(),A2-HYDRO-TGRAVEL(),A2-HYDRO-CSAND()

*Values in parentheses indicate holding time in days



Project Name: LIS-USACOE RIM DREDGE

Project Number: Not Specified

Lab Number: L1503503

Report Date: 03/16/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1503503-06A	Glass 250ml/8oz unpreserved	A	N/A	2.8	Y	Absent	A2-PB-6020T(180),A2-RIM-PAH/PCBCONG(14),A2-MOISTURE-2540(7),A2-NI-6020T(180),A2-ZN-6020T(180),A2-HG-7474T(28),A2-CR-6020T(180),A2-TS(7),A2-AS-6020T(180),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-RIM FORMS(),A2-PREP-3050:2T(180),A2-TOC-9060-2REPS(28),A2-CU-6020T(180),A2-RIM-PEST-8081(14)
L1503503-06B	Plastic 8oz unpreserved for Grai	A	N/A	2.8	Y	Absent	A2-HYDRO-TFINE(),A2-HYDRO-FSAND(),A2-HYDRO-MSAND(),A2-HYDRO-TGRAVEL(),A2-HYDRO-CSAND()
L1503503-07A	Glass 250ml/8oz unpreserved	A	N/A	2.8	Y	Absent	A2-PB-6020T(180),A2-RIM-PAH/PCBCONG(14),A2-MOISTURE-2540(7),A2-NI-6020T(180),A2-ZN-6020T(180),A2-HG-7474T(28),A2-CR-6020T(180),A2-TS(7),A2-AS-6020T(180),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-RIM FORMS(),A2-PREP-3050:2T(180),A2-TOC-9060-2REPS(28),A2-CU-6020T(180),A2-RIM-PEST-8081(14)
L1503503-07B	Plastic 8oz unpreserved for Grai	A	N/A	2.8	Y	Absent	A2-HYDRO-TFINE(),A2-HYDRO-FSAND(),A2-HYDRO-MSAND(),A2-HYDRO-TGRAVEL(),A2-HYDRO-CSAND()
L1503503-08A	Glass 250ml/8oz unpreserved	B	N/A	3.9	Y	Absent	A2-PB-6020T(180),A2-RIM-PAH/PCBCONG(14),A2-MOISTURE-2540(7),A2-NI-6020T(180),A2-ZN-6020T(180),A2-HG-7474T(28),A2-CR-6020T(180),A2-TS(7),A2-AS-6020T(180),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PREP-3050:2T(180),A2-TOC-9060-2REPS(28),A2-CU-6020T(180),A2-RIM-PEST-8081(14)
L1503503-08B	Plastic 8oz unpreserved for Grai	B	N/A	3.9	Y	Absent	A2-HYDRO-TFINE(),A2-HYDRO-FSAND(),A2-HYDRO-MSAND(),A2-HYDRO-TGRAVEL(),A2-HYDRO-CSAND()

*Values in parentheses indicate holding time in days



Project Name: LIS-USACOE RIM DREDGE

Project Number: Not Specified

Lab Number: L1503503

Report Date: 03/16/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1503503-09A	Glass 250ml/8oz unpreserved	B	N/A	3.9	Y	Absent	A2-PB-6020T(180),A2-RIM-PAH/PCBCONG(14),A2-MOISTURE-2540(7),A2-NI-6020T(180),A2-ZN-6020T(180),A2-HG-7474T(28),A2-CR-6020T(180),A2-TS(7),A2-AS-6020T(180),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PREP-3050:2T(180),A2-TOC-9060-2REPS(28),A2-CU-6020T(180),A2-RIM-PEST-8081(14)
L1503503-09B	Plastic 8oz unpreserved for Grai	B	N/A	3.9	Y	Absent	A2-HYDRO-TFINE(),A2-HYDRO-FSAND(),A2-HYDRO-MSAND(),A2-HYDRO-TGRAVEL(),A2-HYDRO-CSAND()
L1503503-10A	Glass 250ml/8oz unpreserved	B	N/A	3.9	Y	Absent	A2-PB-6020T(180),A2-RIM-PAH/PCBCONG(14),A2-MOISTURE-2540(7),A2-NI-6020T(180),A2-ZN-6020T(180),A2-HG-7474T(28),A2-CR-6020T(180),A2-TS(7),A2-AS-6020T(180),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PREP-3050:2T(180),A2-TOC-9060-2REPS(28),A2-CU-6020T(180),A2-RIM-PEST-8081(14)
L1503503-10B	Plastic 8oz unpreserved for Grai	B	N/A	3.9	Y	Absent	A2-HYDRO-TFINE(),A2-HYDRO-FSAND(),A2-HYDRO-MSAND(),A2-HYDRO-TGRAVEL(),A2-HYDRO-CSAND()
L1503503-11A	Glass 250ml/8oz unpreserved	B	N/A	3.9	Y	Absent	A2-PB-6020T(180),A2-RIM-PAH/PCBCONG(14),A2-MOISTURE-2540(7),A2-NI-6020T(180),A2-ZN-6020T(180),A2-HG-7474T(28),A2-CR-6020T(180),A2-TS(7),A2-AS-6020T(180),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PREP-3050:2T(180),A2-TOC-9060-2REPS(28),A2-CU-6020T(180),A2-RIM-PEST-8081(14)
L1503503-11B	Plastic 8oz unpreserved for Grai	B	N/A	3.9	Y	Absent	A2-HYDRO-TFINE(),A2-HYDRO-FSAND(),A2-HYDRO-MSAND(),A2-HYDRO-TGRAVEL(),A2-HYDRO-CSAND()

*Values in parentheses indicate holding time in days



Project Name: LIS-USACOE RIM DREDGE

Project Number: Not Specified

Lab Number: L1503503

Report Date: 03/16/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1503503-12A	Glass 250ml/8oz unpreserved	B	N/A	3.9	Y	Absent	A2-PB-6020T(180),A2-RIM-PAH/PCBCONG(14),A2-MOISTURE-2540(7),A2-NI-6020T(180),A2-ZN-6020T(180),A2-HG-7474T(28),A2-CR-6020T(180),A2-TS(7),A2-AS-6020T(180),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PREP-3050:2T(180),A2-TOC-9060-2REPS(28),A2-CU-6020T(180),A2-RIM-PEST-8081(14)
L1503503-12B	Plastic 8oz unpreserved for Grai	B	N/A	3.9	Y	Absent	A2-HYDRO-TFINE(),A2-HYDRO-FSAND(),A2-HYDRO-MSAND(),A2-HYDRO-TGRAVEL(),A2-HYDRO-CSAND()
L1503503-13A	Glass 250ml/8oz unpreserved	B	N/A	3.9	Y	Absent	A2-PB-6020T(180),A2-RIM-PAH/PCBCONG(14),A2-MOISTURE-2540(7),A2-NI-6020T(180),A2-ZN-6020T(180),A2-HG-7474T(28),A2-CR-6020T(180),A2-TS(7),A2-AS-6020T(180),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PREP-3050:2T(180),A2-TOC-9060-2REPS(28),A2-CU-6020T(180),A2-RIM-PEST-8081(14)
L1503503-13B	Plastic 8oz unpreserved for Grai	B	N/A	3.9	Y	Absent	A2-HYDRO-TFINE(),A2-HYDRO-FSAND(),A2-HYDRO-MSAND(),A2-HYDRO-TGRAVEL(),A2-HYDRO-CSAND()
L1503503-14A	Glass 250ml/8oz unpreserved	B	N/A	3.9	Y	Absent	A2-PB-6020T(180),A2-RIM-PAH/PCBCONG(14),A2-MOISTURE-2540(7),A2-NI-6020T(180),A2-ZN-6020T(180),A2-HG-7474T(28),A2-CR-6020T(180),A2-TS(7),A2-AS-6020T(180),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PREP-3050:2T(180),A2-TOC-9060-2REPS(28),A2-CU-6020T(180),A2-RIM-PEST-8081(14)
L1503503-14B	Plastic 8oz unpreserved for Grai	B	N/A	3.9	Y	Absent	A2-HYDRO-TFINE(),A2-HYDRO-FSAND(),A2-HYDRO-MSAND(),A2-HYDRO-TGRAVEL(),A2-HYDRO-CSAND()

*Values in parentheses indicate holding time in days



Project Name: LIS-USACOE RIM DREDGE

Project Number: Not Specified

Lab Number: L1503503

Report Date: 03/16/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1503503-15A	Glass 250ml/8oz unpreserved	B	N/A	3.9	Y	Absent	A2-PB-6020T(180),A2-RIM-PAH/PCBCONG(14),A2-MOISTURE-2540(7),A2-NI-6020T(180),A2-ZN-6020T(180),A2-HG-7474T(28),A2-CR-6020T(180),A2-TS(7),A2-AS-6020T(180),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PREP-3050:2T(180),A2-TOC-9060-2REPS(28),A2-CU-6020T(180),A2-RIM-PEST-8081(14)
L1503503-15B	Plastic 8oz unpreserved for Grai	B	N/A	3.9	Y	Absent	A2-HYDRO-TFINE(),A2-HYDRO-FSAND(),A2-HYDRO-MSAND(),A2-HYDRO-TGRAVEL(),A2-HYDRO-CSAND()
L1503503-16A	Glass 250ml/8oz unpreserved	B	N/A	3.9	Y	Absent	A2-PB-6020T(180),A2-RIM-PAH/PCBCONG(14),A2-MOISTURE-2540(7),A2-NI-6020T(180),A2-ZN-6020T(180),A2-HG-7474T(28),A2-CR-6020T(180),A2-TS(7),A2-AS-6020T(180),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PREP-3050:2T(180),A2-TOC-9060-2REPS(28),A2-CU-6020T(180),A2-RIM-PEST-8081(14)
L1503503-16B	Plastic 8oz unpreserved for Grai	B	N/A	3.9	Y	Absent	A2-HYDRO-TFINE(),A2-HYDRO-FSAND(),A2-HYDRO-MSAND(),A2-HYDRO-TGRAVEL(),A2-HYDRO-CSAND()
L1503503-17A	Glass 250ml/8oz unpreserved	B	N/A	3.9	Y	Absent	A2-PB-6020T(180),A2-RIM-PAH/PCBCONG(14),A2-MOISTURE-2540(7),A2-NI-6020T(180),A2-ZN-6020T(180),A2-HG-7474T(28),A2-CR-6020T(180),A2-TS(7),A2-AS-6020T(180),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PREP-3050:2T(180),A2-TOC-9060-2REPS(28),A2-CU-6020T(180),A2-RIM-PEST-8081(14)
L1503503-17B	Plastic 8oz unpreserved for Grai	B	N/A	3.9	Y	Absent	A2-HYDRO-TFINE(),A2-HYDRO-FSAND(),A2-HYDRO-MSAND(),A2-HYDRO-TGRAVEL(),A2-HYDRO-CSAND()

*Values in parentheses indicate holding time in days



Project Name: LIS-USACOE RIM DREDGE

Lab Number: L1503503

Project Number: Not Specified

Report Date: 03/16/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1503503-18A	Glass 250ml/8oz unpreserved	B	N/A	3.9	Y	Absent	A2-PB-6020T(180),A2-RIM-PAH/PCBCONG(14),A2-MOISTURE-2540(7),A2-NI-6020T(180),A2-ZN-6020T(180),A2-HG-7474T(28),A2-CR-6020T(180),A2-TS(7),A2-AS-6020T(180),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PREP-3050:2T(180),A2-TOC-9060-2REPS(28),A2-CU-6020T(180),A2-RIM-PEST-8081(14)
L1503503-18B	Plastic 8oz unpreserved for Grai	B	N/A	3.9	Y	Absent	A2-HYDRO-TFINE(),A2-HYDRO-FSAND(),A2-HYDRO-MSAND(),A2-HYDRO-TGRAVEL(),A2-HYDRO-CSAND()
L1503503-19A	Glass 250ml/8oz unpreserved	B	N/A	3.9	Y	Absent	A2-PB-6020T(180),A2-RIM-PAH/PCBCONG(14),A2-MOISTURE-2540(7),A2-NI-6020T(180),A2-ZN-6020T(180),A2-HG-7474T(28),A2-CR-6020T(180),A2-TS(7),A2-AS-6020T(180),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PREP-3050:2T(180),A2-TOC-9060-2REPS(28),A2-CU-6020T(180),A2-RIM-PEST-8081(14)
L1503503-19B	Plastic 8oz unpreserved for Grai	B	N/A	3.9	Y	Absent	A2-HYDRO-TFINE(),A2-HYDRO-FSAND(),A2-HYDRO-MSAND(),A2-HYDRO-TGRAVEL(),A2-HYDRO-CSAND()
L1503503-20A	Glass 250ml/8oz unpreserved	B	N/A	3.9	Y	Absent	A2-PB-6020T(180),A2-RIM-PAH/PCBCONG(14),A2-MOISTURE-2540(7),A2-NI-6020T(180),A2-ZN-6020T(180),A2-HG-7474T(28),A2-CR-6020T(180),A2-TS(7),A2-AS-6020T(180),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PREP-3050:2T(180),A2-TOC-9060-2REPS(28),A2-CU-6020T(180),A2-RIM-PEST-8081(14)
L1503503-20B	Plastic 8oz unpreserved for Grai	B	N/A	3.9	Y	Absent	A2-HYDRO-TFINE(),A2-HYDRO-FSAND(),A2-HYDRO-MSAND(),A2-HYDRO-TGRAVEL(),A2-HYDRO-CSAND()

*Values in parentheses indicate holding time in days



Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: Data Usability Report



Project Name: LIS-USACOE RIM DREDGE
Project Number: Not Specified

Lab Number: L1503503
Report Date: 03/16/15

Data Qualifiers

- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report



Project Name: LIS-USACOE RIM DREDGE**Lab Number:** L1503503**Project Number:** Not Specified**Report Date:** 03/16/15

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 12 Annual Book of ASTM Standards. (American Society for Testing and Materials) ASTM International.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 105 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997 in conjunction with NOAA Technical Memorandum NMFS-NWFSC-59: Extraction, Cleanup and GC/MS Analysis of Sediments and Tissues for Organic Contaminants, March 2004 and the Determination of Pesticides and PCBs in Water and Oil/Sediment by GC/MS: Method 680, EPA 01A0005295, November 1985.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

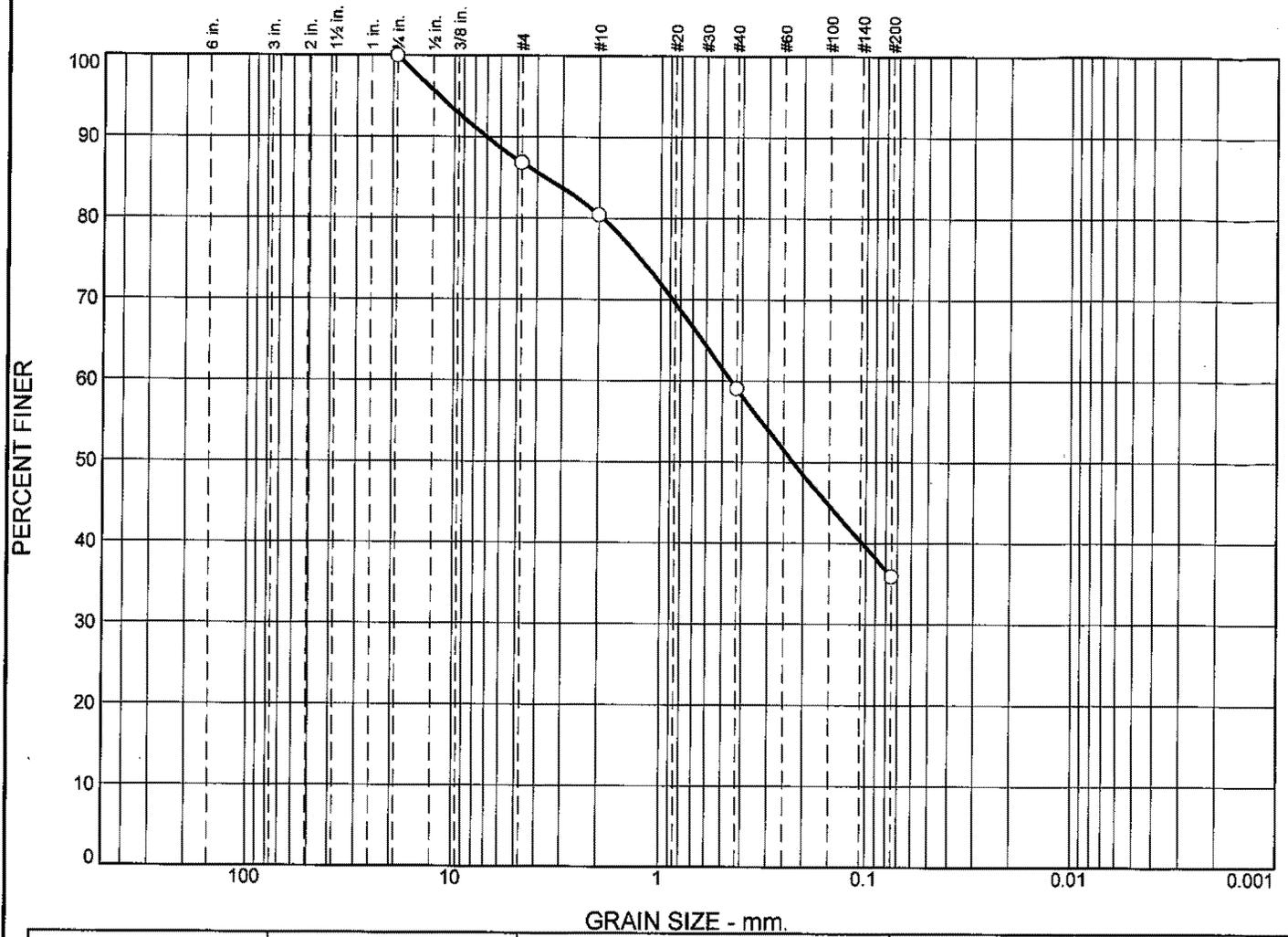
We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



ASTM D422-63

GRAIN SIZE ANALYSIS

Particle Size Distribution Report



% +3"		% Gravel		% Sand			% Fines			
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay		
0.0		0.0	13.2	6.3	21.4	23.2	35.9			
<input checked="" type="checkbox"/>	LL	PL	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
<input type="checkbox"/>			3.6361	0.4519	0.2238					
Material Description							USCS	AASHTO		

Project No.	Client:	Remarks:
Project:		
<input type="checkbox"/> Source of Sample: L-56	Sample Number: L1503503-01	
Alpha Analytical		Figure
Mansfield, MA		

GRAIN SIZE DISTRIBUTION TEST DATA

3/16/2015

Location: L-56

Sample Number: L1503503-01

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 113.56
 Tare Wt. = 0.00
 Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
113.56	0.00	0.75	0.00	0.00	100.0
		#4	14.94	0.00	86.8
		#10	7.25	0.00	80.5
		#40	24.28	0.00	59.1
		#200	26.30	0.00	35.9

Fractional Components

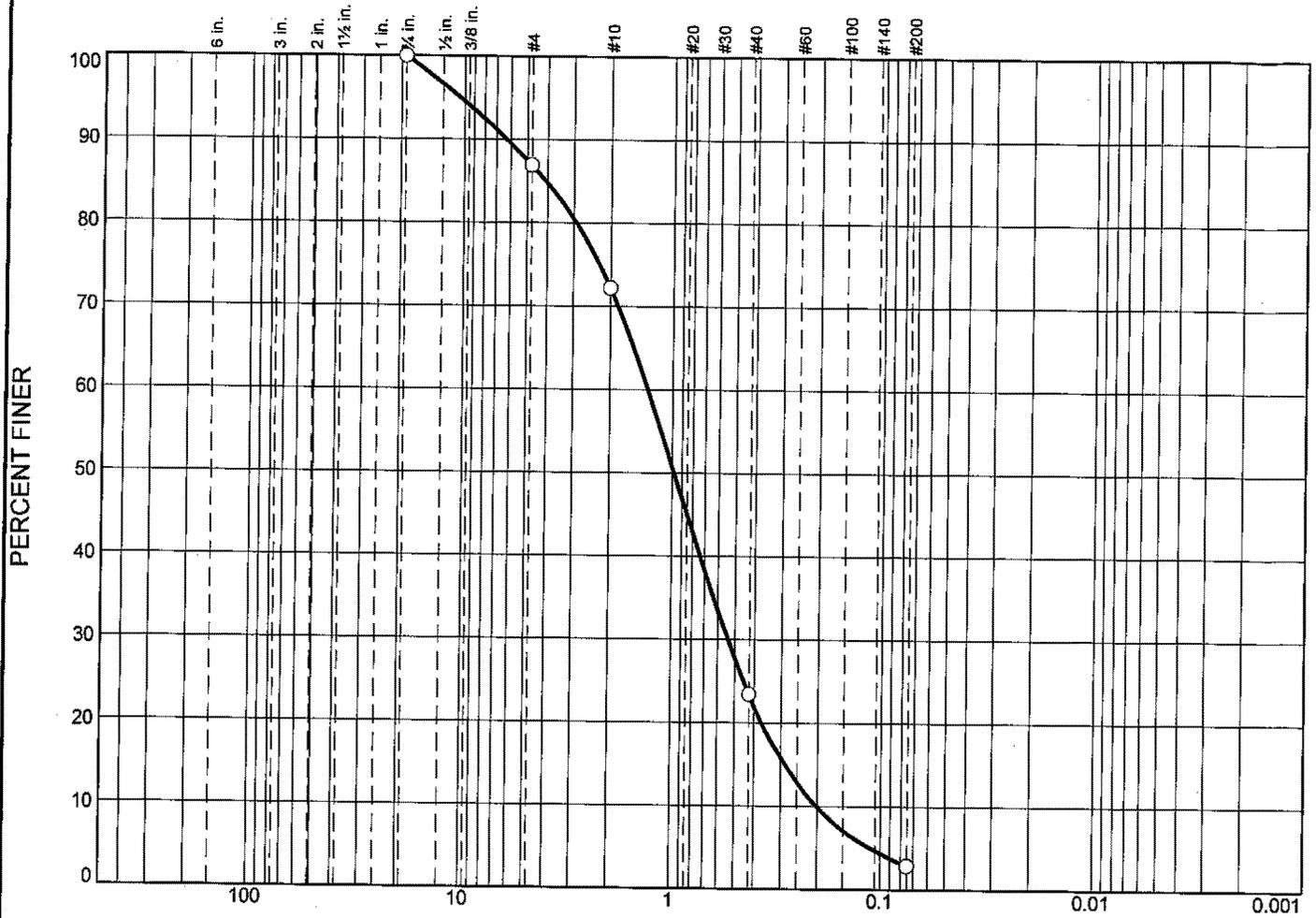
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	13.2	13.2	6.3	21.4	23.2	50.9			35.9

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
				0.2238	0.4519	1.9077	3.6361	6.9999	11.7887

Fineness Modulus
2.01

Alpha Analytical

Particle Size Distribution Report



GRAIN SIZE - mm.									
% +3"	% Gravel				% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay		
0.0	0.0	13.1	14.7	48.7	20.6	2.9			
LL	PL	D85	D60	D50	D30	D15	D10	Cc	Cu
		4.0647	1.3147	0.9774	0.5365	0.2854	0.2013	1.09	6.53

Material Description	USCS	AASHTO
	SW	

Project No.	Client:	Remarks:
Project:		
Source of Sample: L-55	Sample Number: L1503503-02	
Alpha Analytical		Figure
Mansfield, MA		

GRAIN SIZE DISTRIBUTION TEST DATA

3/16/2015

Location: L-55

Sample Number: L1503503-02

USCS Classification: SW

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 132.93

Tare Wt. = 0.00

Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
132.93	0.00	0.75	0.00	0.00	100.0
		#4	17.37	0.00	86.9
		#10	19.55	0.00	72.2
		#40	64.83	0.00	23.5
		#200	27.38	0.00	2.9

Fractional Components

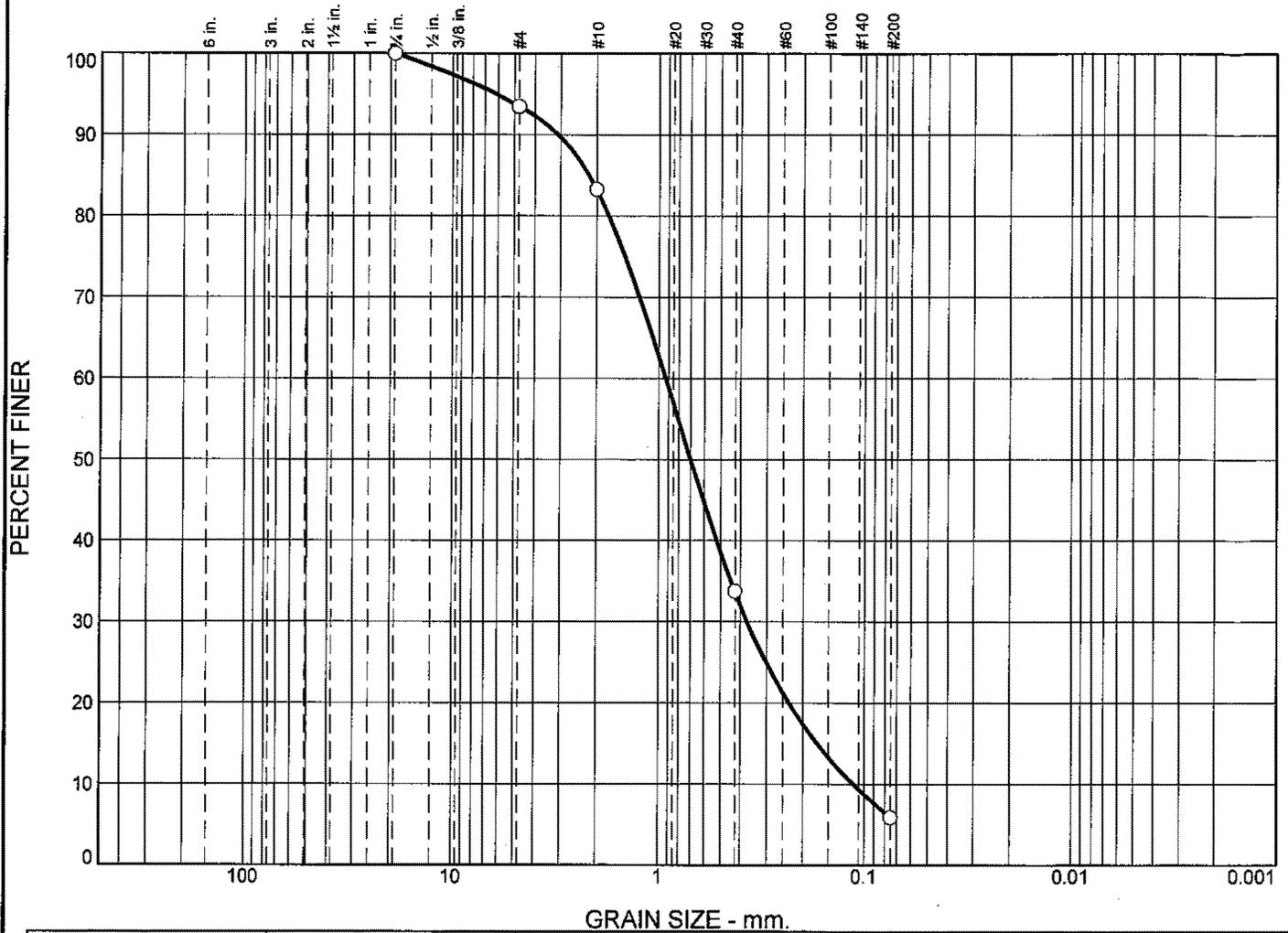
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	13.1	13.1	14.7	48.7	20.6	84.0			2.9

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.2013	0.2854	0.3679	0.5365	0.9774	1.3147	2.9065	4.0647	6.2447	10.4991

Fineness Modulus	C _u	C _c
3.30	6.53	1.09

Alpha Analytical

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	6.5	10.2	49.5	27.9	5.9	

<input checked="" type="checkbox"/>	LL	PL	D85	D60	D50	D30	D15	D10	Cc	Cu
<input type="checkbox"/>			2.1799	0.9231	0.6971	0.3700	0.1698	0.1127	1.32	8.19

Material Description	USCS	AASHTO

Project No. Project:	Client: Source of Sample: L-54 Sample Number: L1503503-03	Remarks: <div style="text-align: center;"> Alpha Analytical Mansfield, MA </div>
---------------------------------------	---	---

Figure

GRAIN SIZE DISTRIBUTION TEST DATA

3/16/2015

Location: L-54

Sample Number: L1503503-03

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 122.67
 Tare Wt. = 0.00
 Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
122.67	0.00	0.75	0.00	0.00	100.0
		#4	7.99	0.00	93.5
		#10	12.53	0.00	83.3
		#40	60.71	0.00	33.8
		#200	34.21	0.00	5.9

Fractional Components

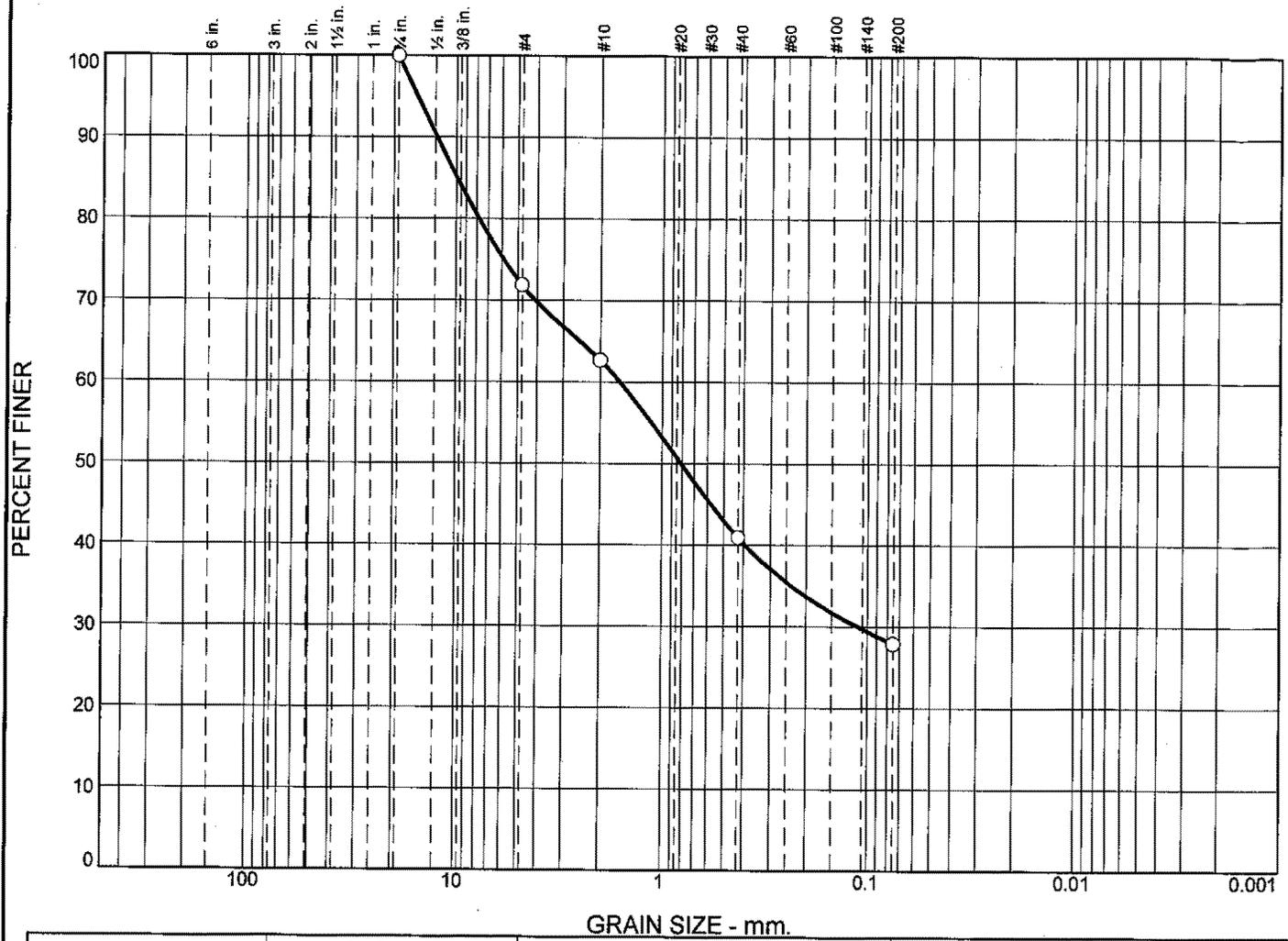
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	6.5	6.5	10.2	49.5	27.9	87.6			5.9

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.1127	0.1698	0.2330	0.3700	0.6971	0.9231	1.7396	2.1799	3.0790	6.1482

Fineness Modulus	C _u	C _c
2.71	8.19	1.32

Alpha Analytical

Particle Size Distribution Report



GRAIN SIZE - mm.										
% +3"	% Gravel		% Sand			% Fines				
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay			
0.0	0.0	28.1	9.2	21.7	13.1	27.9				
<input checked="" type="checkbox"/>	LL	PL	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
<input type="checkbox"/>			9.8846	1.6048	0.8072	0.1113				
Material Description								USCS	AASHTO	

Project No.	Client:	Remarks:
Project:		
<input type="checkbox"/> Source of Sample: L-53	Sample Number: L1503503-04	
Alpha Analytical		Figure
Mansfield, MA		

GRAIN SIZE DISTRIBUTION TEST DATA

3/16/2015

Location: L-53

Sample Number: L1503503-04

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 121.38
 Tare Wt. = 0.00
 Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
121.38	0.00	0.75	0.00	0.00	100.0
		#4	34.12	0.00	71.9
		#10	11.17	0.00	62.7
		#40	26.37	0.00	41.0
		#200	15.84	0.00	27.9

Fractional Components

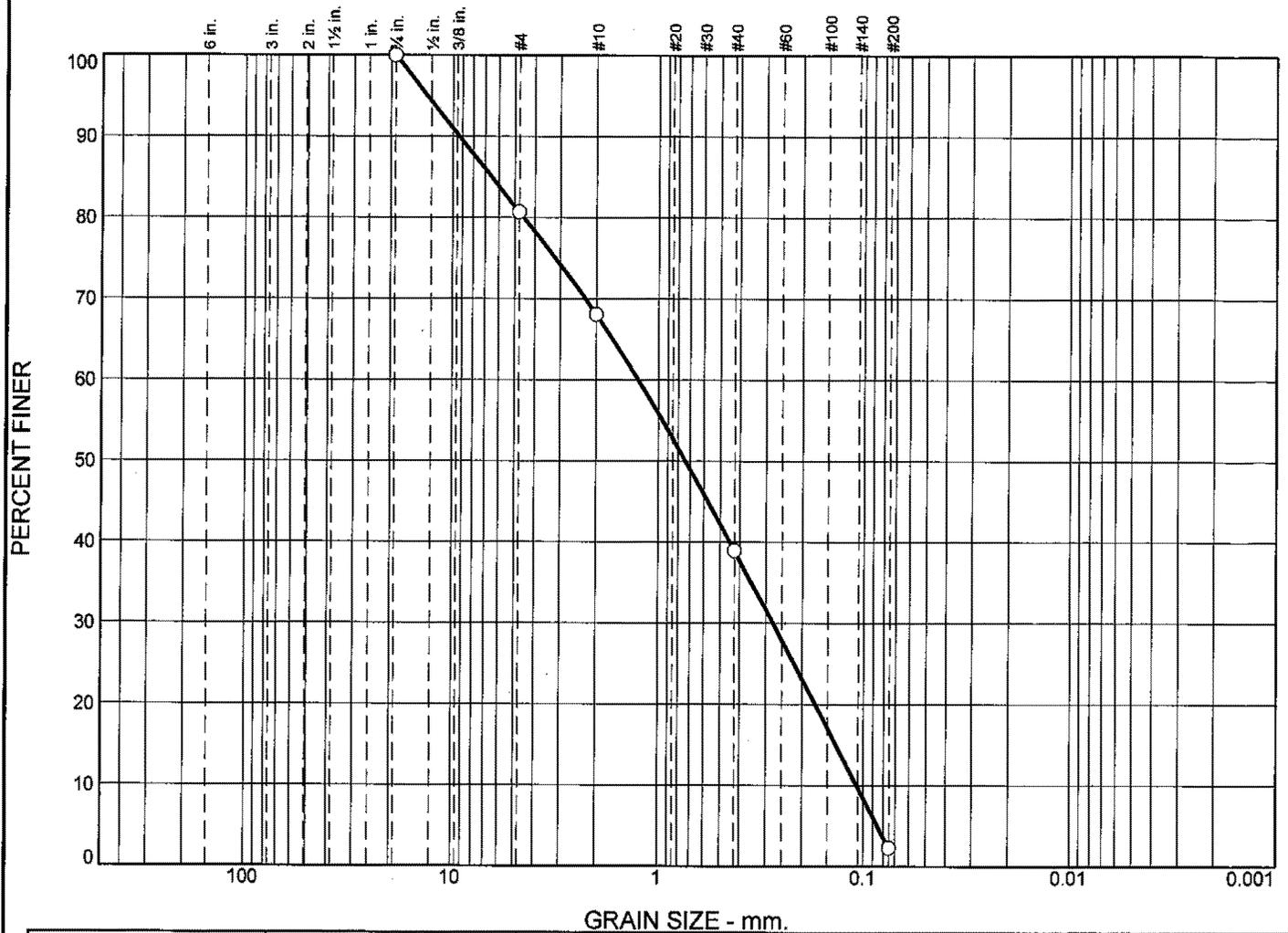
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	28.1	28.1	9.2	21.7	13.1	44.0			27.9

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
			0.1113	0.8072	1.6048	7.7365	9.8846	12.4008	15.4042

Fineness Modulus
3.09

Alpha Analytical

Particle Size Distribution Report



		GRAIN SIZE - mm.								
%	+3"	% Gravel		% Sand			% Fines			
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay		
○	0.0	0.0	19.3	12.6	29.1	36.7	2.3			
⊗	LL	PL	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
○			6.4732	1.2456	0.7342	0.2760	0.1358	0.1074	0.57	11.59

Material Description	USCS	AASHTO
○	SP	

Project No.	Client:	Remarks:
Project:		
○ Source of Sample: L-52	Sample Number: L1503503-05	
Alpha Analytical		Figure
Mansfield, MA		

GRAIN SIZE DISTRIBUTION TEST DATA

3/16/2015

Location: L-52

Sample Number: L1503503-05

USCS Classification: SP

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 129.60

Tare Wt. = 0.00

Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
129.60	0.00	0.75	0.00	0.00	100.0
		#4	25.01	0.00	80.7
		#10	16.35	0.00	68.1
		#40	37.74	0.00	39.0
		#200	47.51	0.00	2.3

Fractional Components

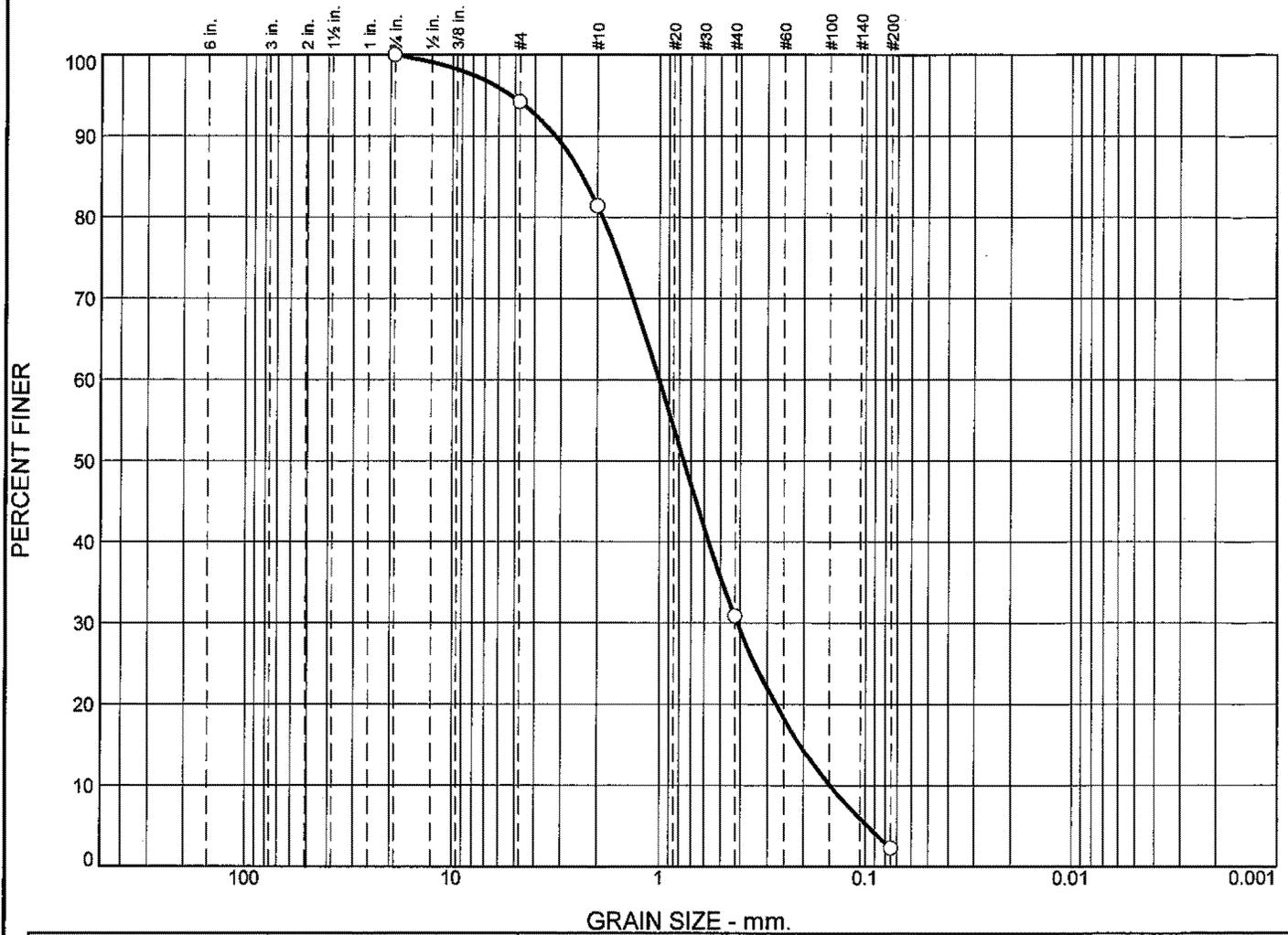
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	19.3	19.3	12.6	29.1	36.7	78.4			2.3

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.1074	0.1358	0.1718	0.2760	0.7342	1.2456	4.5157	6.4732	9.2774	13.2946

Fineness Modulus	C _u	C _c
3.04	11.59	0.57

Alpha Analytical

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines			
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay		
0.0	0.0	5.8	12.8	50.5	28.6	2.3			
LL	PL	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
		2.3533	1.0004	0.7567	0.4121	0.2080	0.1485	1.14	6.73
Material Description							USCS	AASHTO	
							SW		

Project No. _____ Client: _____

Project: _____

Source of Sample: L-51 Sample Number: L1503503-06

Alpha Analytical

Mansfield, MA

Remarks:

Figure

GRAIN SIZE DISTRIBUTION TEST DATA

3/16/2015

Location: L-51

Sample Number: L1503503-06

USCS Classification: SW

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 134.22
 Tare Wt. = 0.00
 Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
134.22	0.00	0.75	0.00	0.00	100.0
		#4	7.74	0.00	94.2
		#10	17.16	0.00	81.4
		#40	67.88	0.00	30.9
		#200	38.38	0.00	2.3

Fractional Components

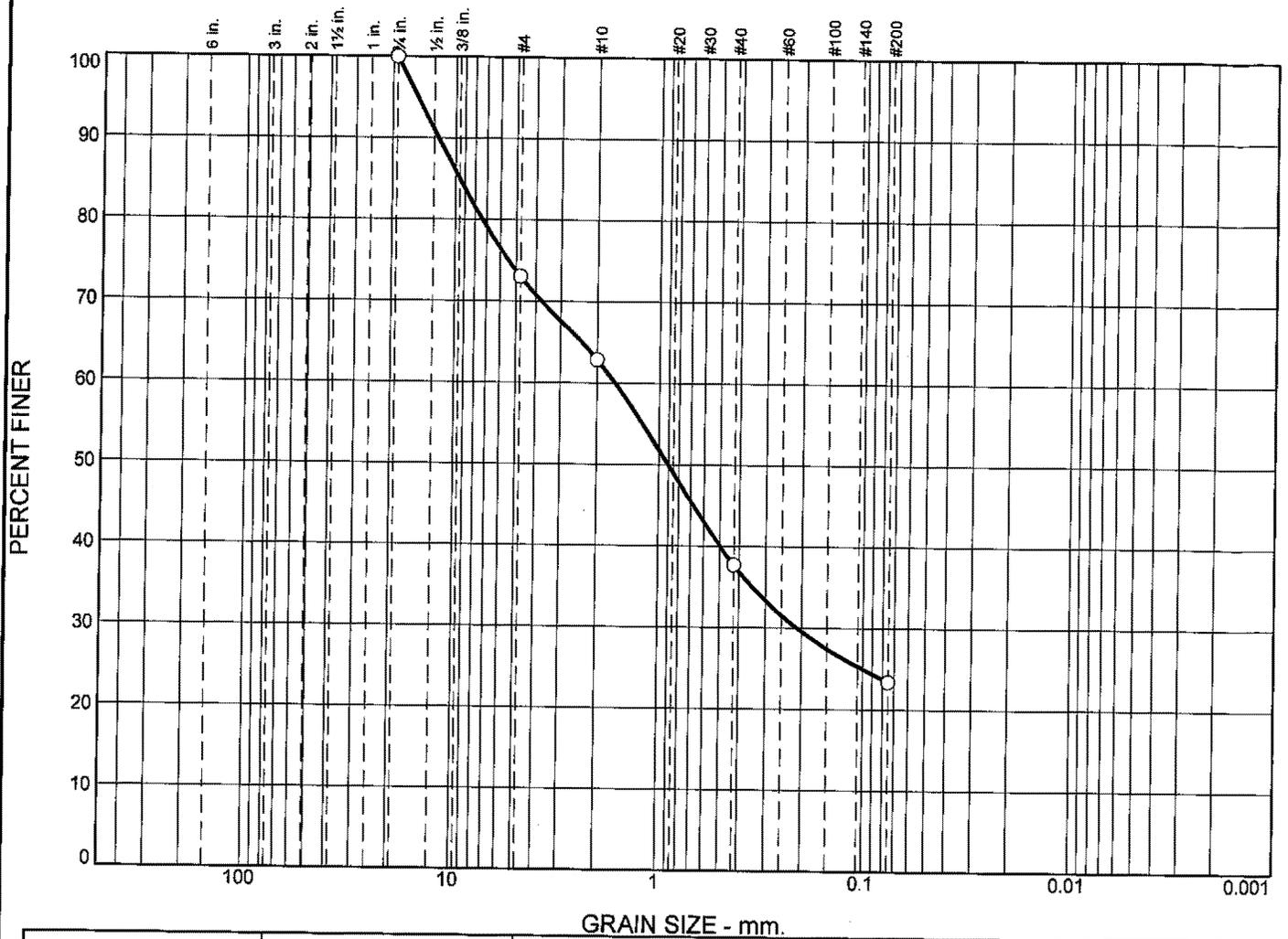
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	5.8	5.8	12.8	50.5	28.6	91.9			2.3

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.1485	0.2080	0.2724	0.4121	0.7567	1.0004	1.8863	2.3533	3.1867	5.2380

Fineness Modulus	C _u	C _c
2.83	6.73	1.14

Alpha Analytical

Particle Size Distribution Report



GRAIN SIZE - mm.									
% +3"	% Gravel		% Sand			% Fines			
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay		
0.0	0.0	27.0	10.1	25.2	14.3	23.4			
LL	PL	D85	D60	D50	D30	D15	D10	Cc	Cu
		9.4965	1.6327	0.8984	0.2102				
Material Description							USCS	AASHTO	

Project No.	Client:	Remarks:
Project:		
Source of Sample: L-62	Sample Number: L1503503-07	
Alpha Analytical		Figure
Mansfield, MA		

GRAIN SIZE DISTRIBUTION TEST DATA

3/16/2015

Location: L-62

Sample Number: L1503503-07

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 88.56
 Tare Wt. = 0.00
 Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
88.56	0.00	0.75	0.00	0.00	100.0
		#4	23.88	0.00	73.0
		#10	9.00	0.00	62.9
		#40	22.28	0.00	37.7
		#200	12.67	0.00	23.4

Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	27.0	27.0	10.1	25.2	14.3	49.6			23.4

D10	D15	D20	D30	D50	D60	D80	D85	D90	D95
			0.2102	0.8984	1.6327	7.3206	9.4965	12.0809	15.2065

Fineness Modulus
3.18

Alpha Analytical

GRAIN SIZE DISTRIBUTION TEST DATA

3/16/2015

Location: L-62

Sample Number: WG766710-1

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 92.86
 Tare Wt. = 0.00
 Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
92.86	0.00	0.75	0.00	0.00	100.0
		#4	36.75	0.00	60.4
		#10	8.35	0.00	51.4
		#40	19.82	0.00	30.1
		#200	11.69	0.00	17.5

Fractional Components

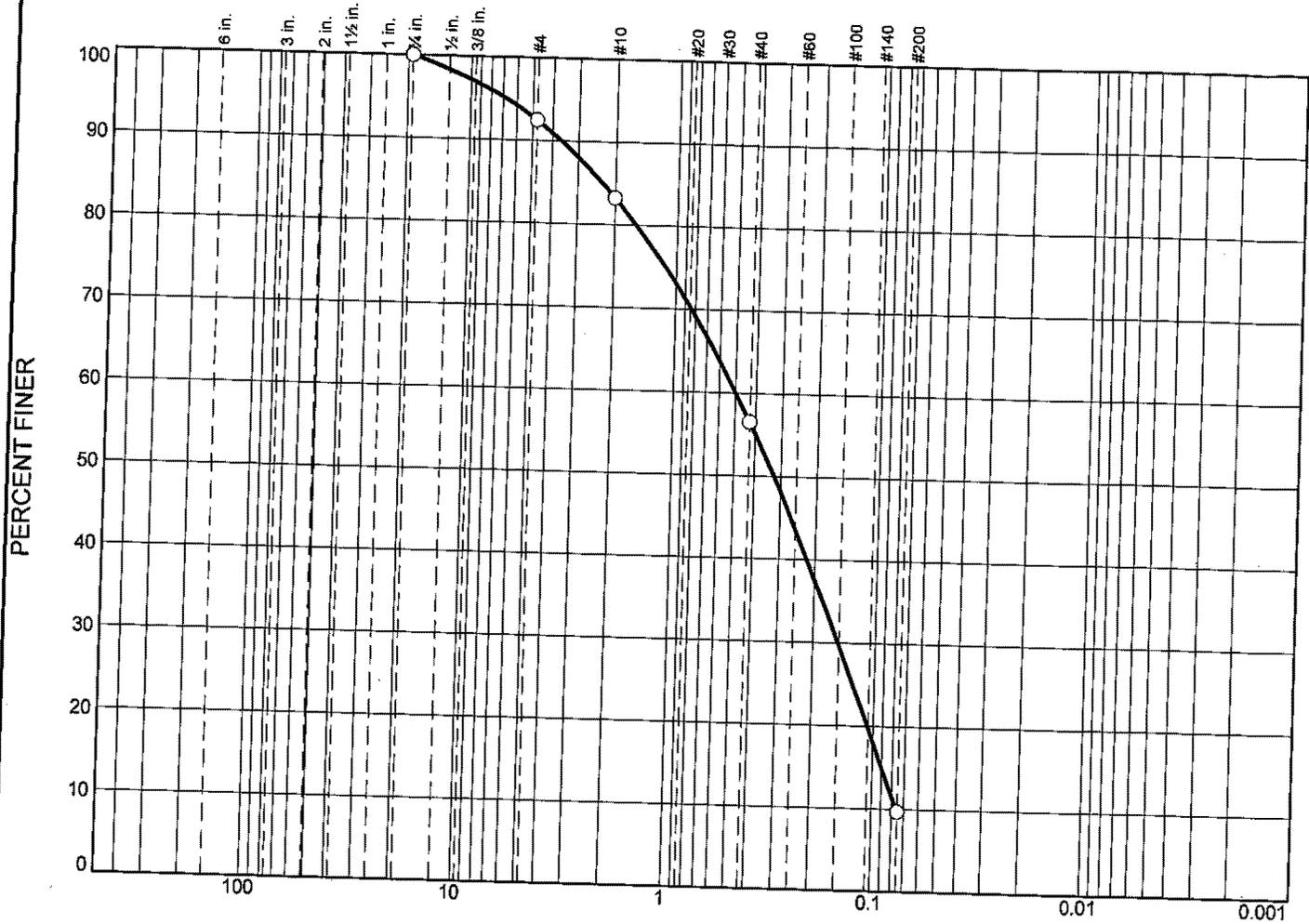
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	39.6	39.6	9.0	21.3	12.6	42.9			17.5

D10	D15	D20	D30	D50	D60	D80	D85	D90	D95
		0.1243	0.4220	1.7499	4.6253	10.4790	12.2505	14.2352	16.4816

Fineness Modulus
3.83

Alpha Analytical

Particle Size Distribution Report



GRAIN SIZE - mm.										
% +3"	% Gravel		% Sand			% Fines				
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay			
0.0	0.0	7.5	9.2	26.8	46.8	9.7				
<input checked="" type="checkbox"/>	LL	PL	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
<input type="checkbox"/>			2.2985	0.4978	0.3218	0.1514	0.0899	0.0758	0.61	6.57

Material Description						USCS	AASHTO

Project No. _____ Client: _____

Project: _____

Source of Sample: L41 Sample Number: L1503503-08

Alpha Analytical

Mansfield, MA

Remarks:

Figure

GRAIN SIZE DISTRIBUTION TEST DATA

3/16/2015

Location: L41

Sample Number: L1503503-08

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 125.62
 Tare Wt. = 0.00
 Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
125.62	0.00	0.75	0.00	0.00	100.0
		#4	9.47	0.00	92.5
		#10	11.56	0.00	83.3
		#40	33.56	0.00	56.5
		#200	58.86	0.00	9.7

Fractional Components

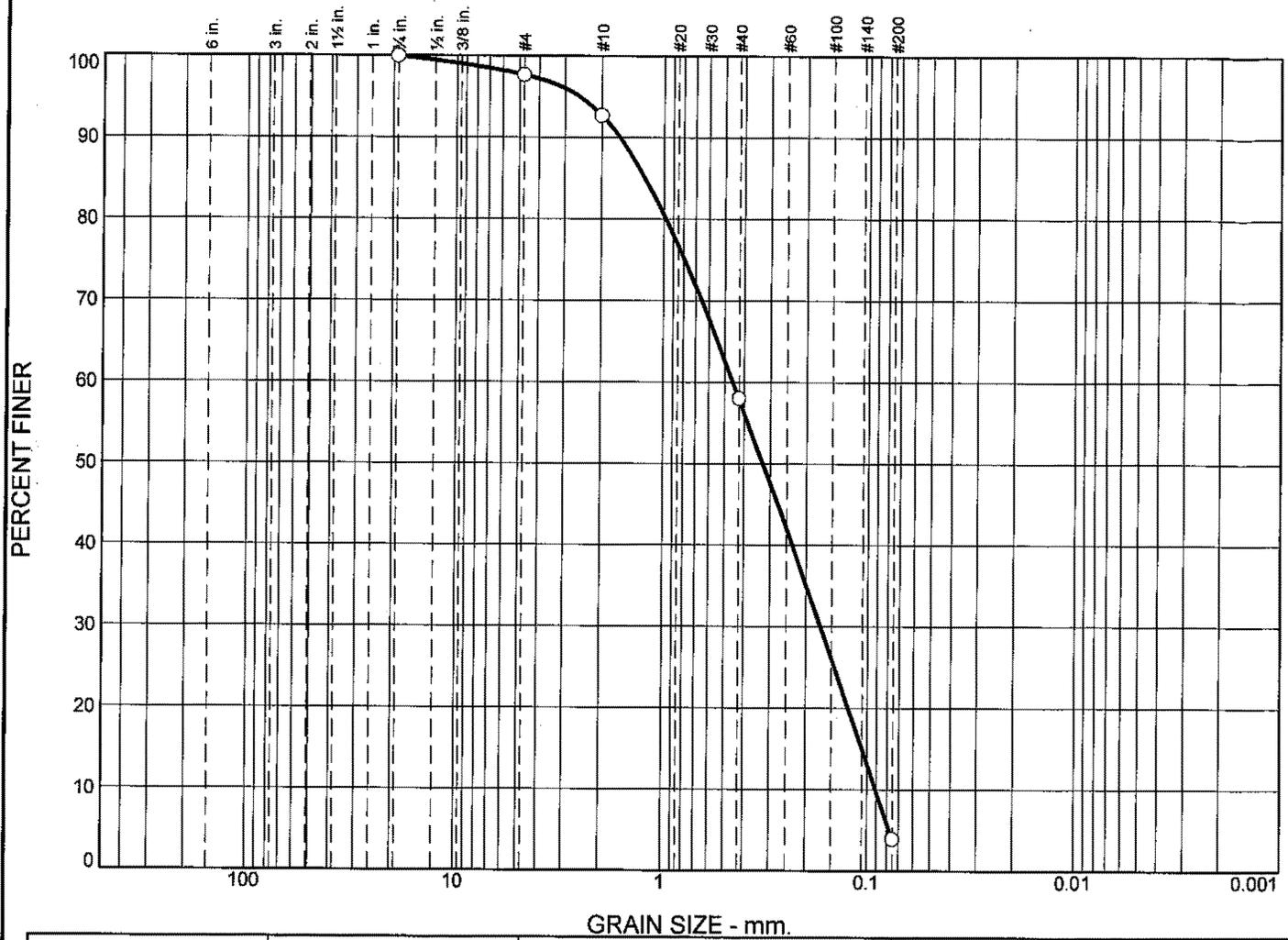
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	7.5	7.5	9.2	26.8	46.8	82.8			9.7

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.0758	0.0899	0.1068	0.1514	0.3218	0.4978	1.5689	2.2985	3.6170	6.7385

Fineness Modulus	C _u	C _c
2.08	6.57	0.61

Alpha Analytical

Particle Size Distribution Report



	% +3"		% Gravel		% Sand			% Fines		
			Coarse	Fine	Coarse	Medium	Fine	Silt	Clay	
<input type="radio"/>	0.0		0.0	2.3	5.0	34.7	54.1	3.9		
<input checked="" type="checkbox"/>	LL	PL	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
<input type="radio"/>			1.2283	0.4546	0.3240	0.1695	0.1058	0.0906	0.70	5.02
Material Description								USCS	AASHTO	
								SP		

Project No.	Client:	Remarks:
Project:		
<input type="radio"/> Source of Sample: L32	Sample Number: L1503503-09	
Alpha Analytical		Figure
Mansfield, MA		

GRAIN SIZE DISTRIBUTION TEST DATA

3/16/2015

Location: L32

Sample Number: L1503503-09

USCS Classification: SP

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 119.69

Tare Wt. = 0.00

Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
119.69	0.00	0.75	0.00	0.00	100.0
		#4	2.79	0.00	97.7
		#10	5.93	0.00	92.7
		#40	41.50	0.00	58.0
		#200	64.77	0.00	3.9

Fractional Components

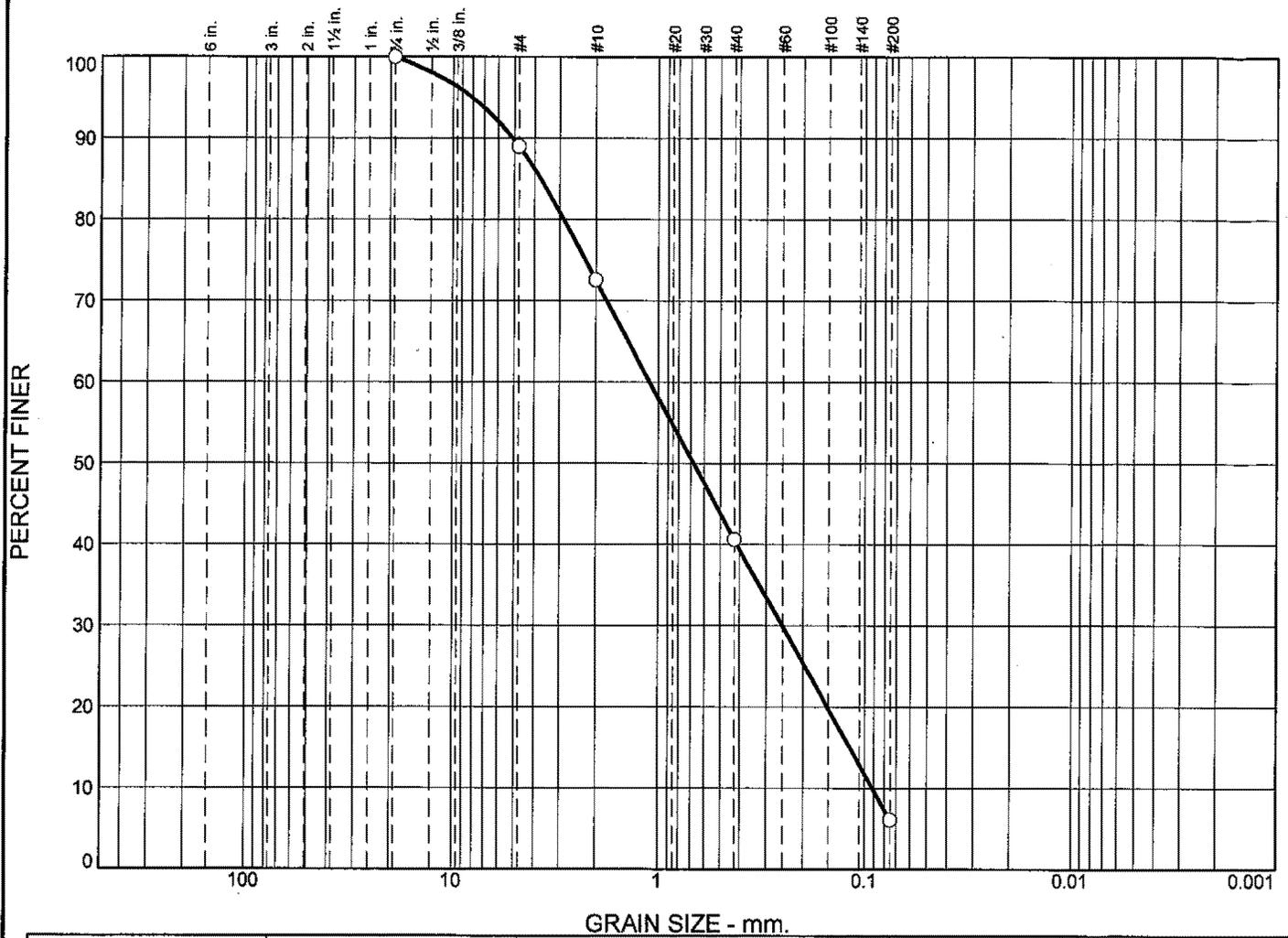
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	2.3	2.3	5.0	34.7	54.1	93.8			3.9

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.0906	0.1058	0.1237	0.1695	0.3240	0.4546	0.9714	1.2283	1.6335	2.5516

Fineness Modulus	C _u	C _c
1.83	5.02	0.70

Alpha Analytical

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	11.0	16.4	32.0	34.5	6.1	

LL	PL	D85	D60	D50	D30	D15	D10	Cc	Cu
		3.7187	1.0950	0.6738	0.2504	0.1176	0.0913	0.63	11.99

Material Description	USCS	AASHTO

Project No. Project:	Client: Source of Sample: L35 Sample Number: L1503503-10	Remarks: <div style="text-align: center; border: 1px solid black; padding: 5px;"> Alpha Analytical Mansfield, MA </div>
---------------------------------------	--	--

Figure

GRAIN SIZE DISTRIBUTION TEST DATA

3/16/2015

Location: L35

Sample Number: L1503503-10

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 127.73
 Tare Wt. = 0.00
 Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
127.73	0.00	0.75	0.00	0.00	100.0
		#4	14.02	0.00	89.0
		#10	21.01	0.00	72.6
		#40	40.81	0.00	40.6
		#200	44.08	0.00	6.1

Fractional Components

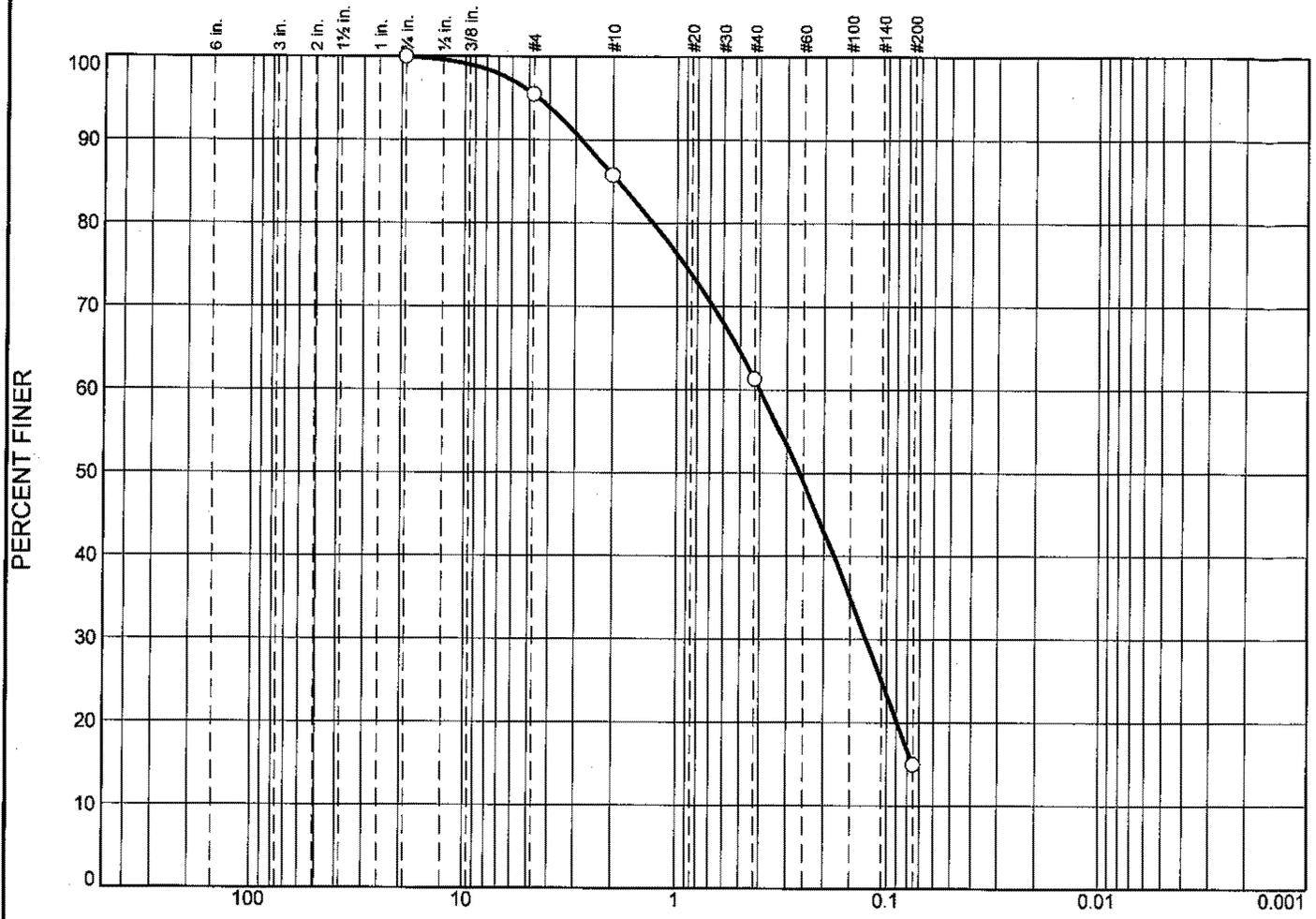
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	11.0	11.0	16.4	32.0	34.5	82.9			6.1

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.0913	0.1176	0.1514	0.2504	0.6738	1.0950	2.8615	3.7187	5.0858	8.0318

Fineness Modulus	C _u	C _c
2.76	11.99	0.63

Alpha Analytical

Particle Size Distribution Report



GRAIN SIZE - mm.										
% +3"	% Gravel		% Sand			% Fines				
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay			
0.0	0.0	4.5	9.7	24.5	46.4	14.9				
<input checked="" type="checkbox"/>	LL	PL	D85	D60	D50	D30	D15	D10	Cc	Cu
<input type="checkbox"/>			1.8844	0.3990	0.2607	0.1253	0.0752			

Material Description	USCS	AASHTO

Project No. Project:	Client: Source of Sample: L33 Sample Number: L1503503-11	Remarks:
Alpha Analytical Mansfield, MA		Figure

GRAIN SIZE DISTRIBUTION TEST DATA

3/16/2015

Location: L33

Sample Number: L1503503-11

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 114.48
 Tare Wt. = 0.00
 Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
114.48	0.00	0.75	0.00	0.00	100.0
		#4	5.16	0.00	95.5
		#10	11.13	0.00	85.8
		#40	27.96	0.00	61.3
		#200	53.13	0.00	14.9

Fractional Components

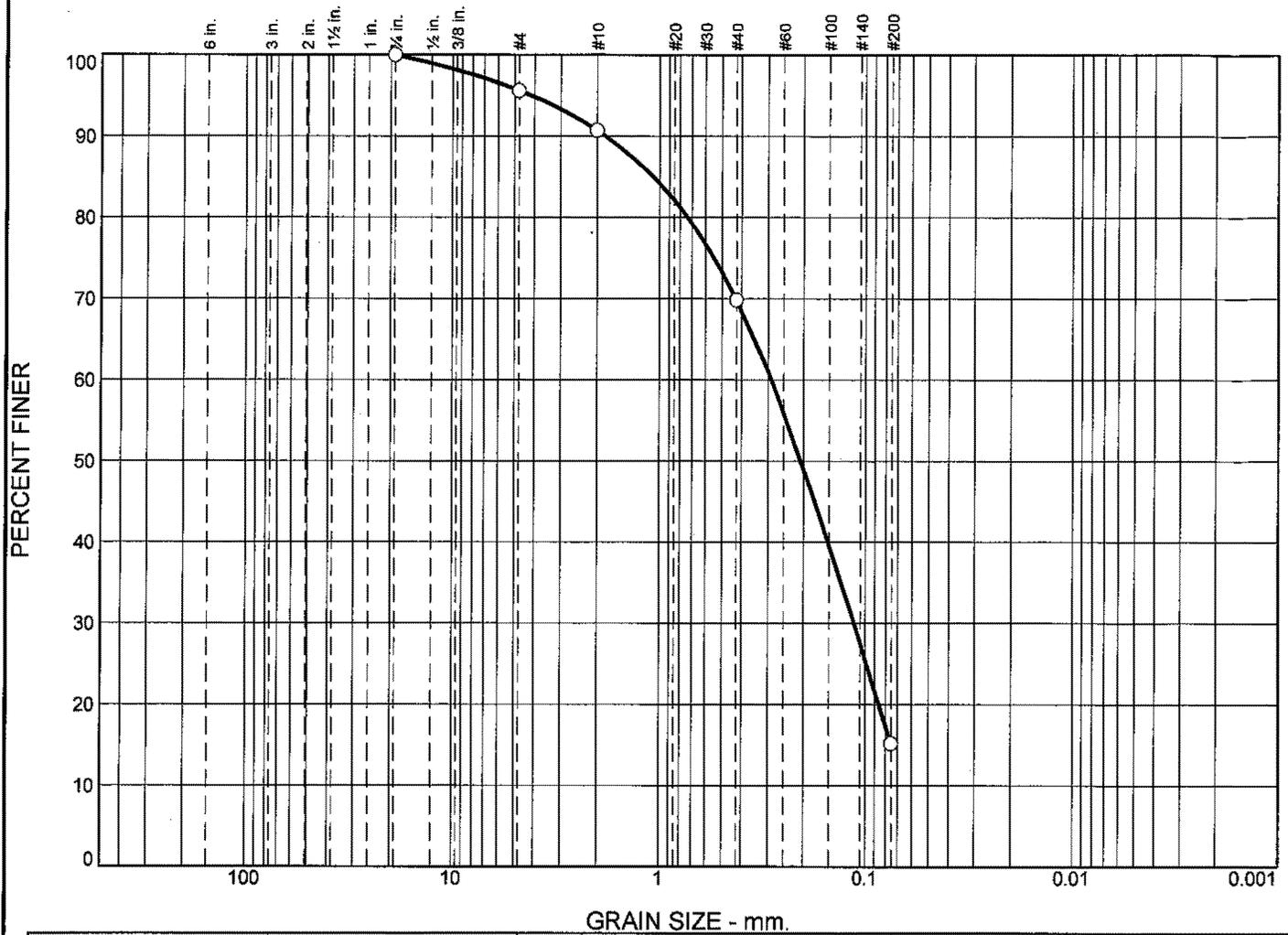
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	4.5	4.5	9.7	24.5	46.4	80.6			14.9

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
	0.0752	0.0890	0.1253	0.2607	0.3990	1.2932	1.8844	2.7970	4.4801

Fineness Modulus
1.82

Alpha Analytical

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	4.4	4.9	20.8	54.7	15.2	

LL	PL	D85	D60	D50	D30	D15	D10	Cc	Cu
		1.0674	0.2879	0.2057	0.1134				

Material Description	USCS	AASHTO

Project No.	Client:	Remarks:
Project:		
Source of Sample: L31	Sample Number: L1503503-12	
Alpha Analytical		Figure
Mansfield, MA		

GRAIN SIZE DISTRIBUTION TEST DATA

3/16/2015

Location: L31

Sample Number: L1503503-12

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 118.70
 Tare Wt. = 0.00
 Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
118.70	0.00	0.75	0.00	0.00	100.0
		#4	5.20	0.00	95.6
		#10	5.84	0.00	90.7
		#40	24.73	0.00	69.9
		#200	64.86	0.00	15.2

Fractional Components

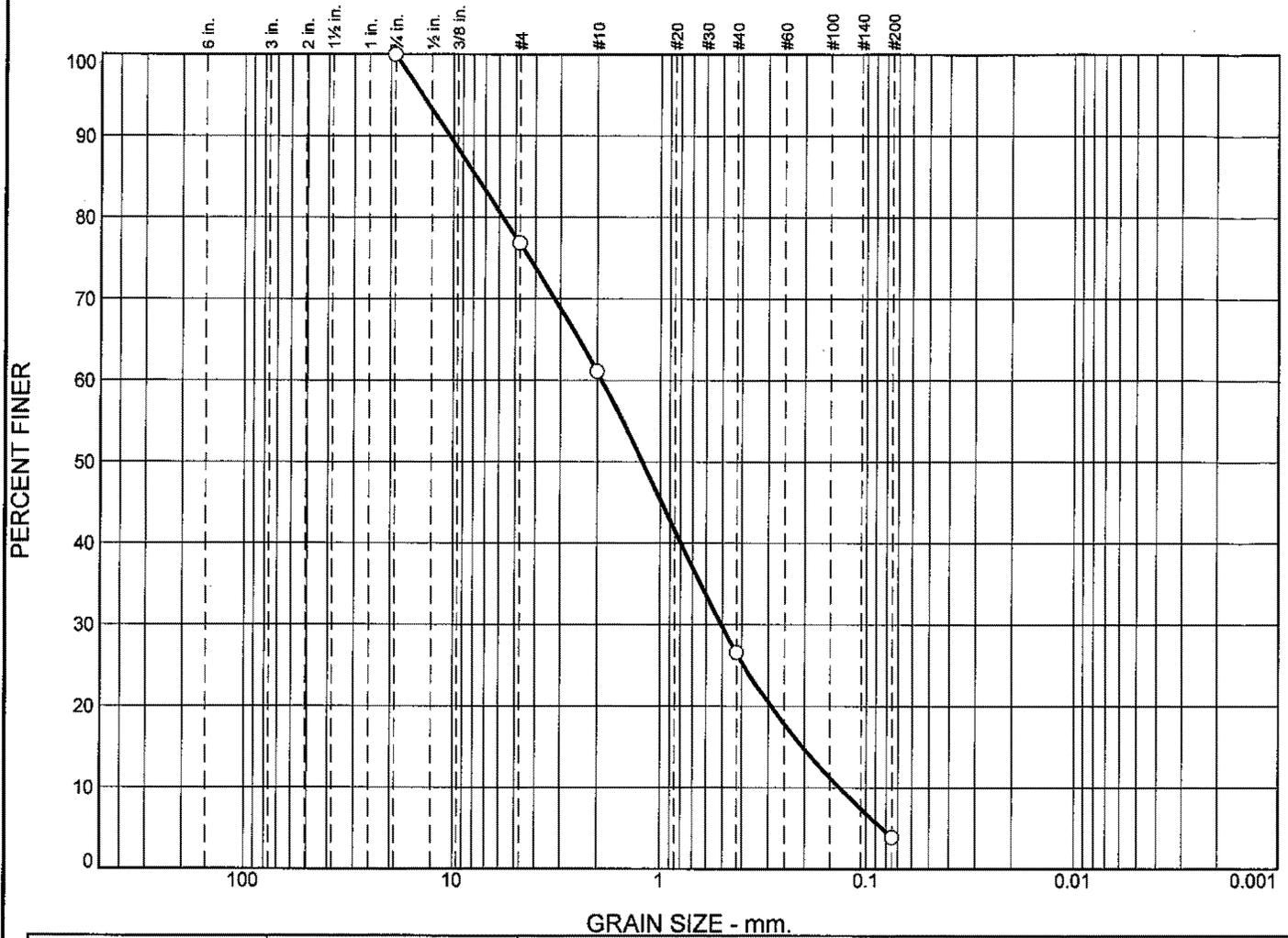
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	4.4	4.4	4.9	20.8	54.7	80.4			15.2

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
		0.0857	0.1134	0.2057	0.2879	0.7308	1.0674	1.8215	4.1422

Fineness Modulus
1.51

Alpha Analytical

Particle Size Distribution Report



% +3"		% Gravel		% Sand			% Fines			
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay		
<input type="radio"/>	0.0	0.0	23.1	15.8	34.5	22.7	3.9			
<input checked="" type="checkbox"/>	LL	PL	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
<input type="radio"/>			7.7136	1.8969	1.2138	0.5040	0.2039	0.1345	1.00	14.10
Material Description								USCS	AASHTO	
<input type="radio"/>								SP		

Project No.	Client:	Remarks:
Project:		
<input type="radio"/> Location: L34	Sample Number: L1503503-13	
Alpha Analytical		Figure
Mansfield, MA		

GRAIN SIZE DISTRIBUTION TEST DATA

3/16/2015

Location: L34

Sample Number: L1503503-13

USCS Classification: SP

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 121.20

Tare Wt. = 0.00

Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
121.20	0.00	0.75	0.00	0.00	100.0
		#4	28.04	0.00	76.9
		#10	19.10	0.00	61.1
		#40	41.81	0.00	26.6
		#200	27.52	0.00	3.9

Fractional Components

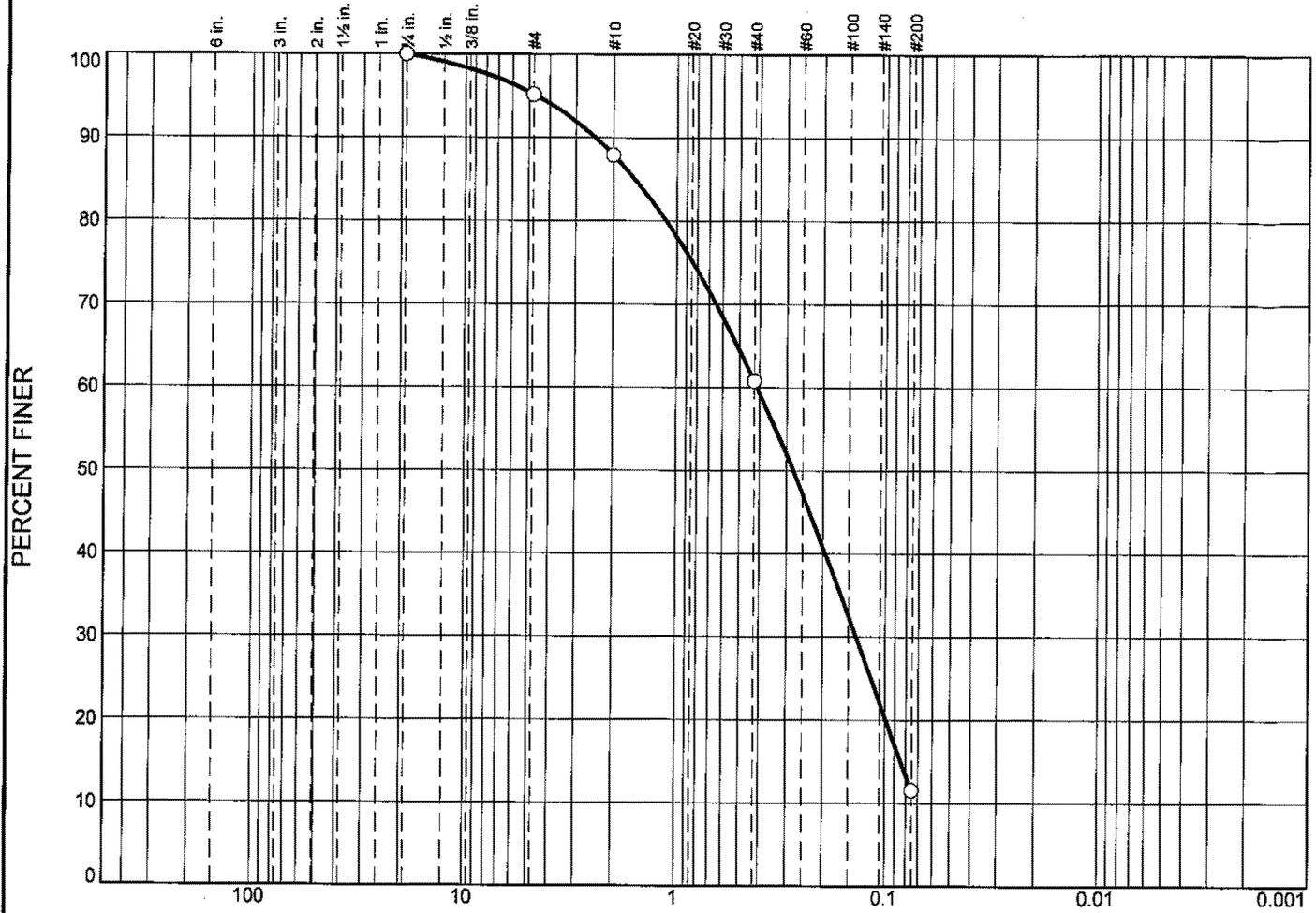
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	23.1	23.1	15.8	34.5	22.7	73.0			3.9

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.1345	0.2039	0.2896	0.5040	1.2138	1.8969	5.7220	7.7136	10.4163	14.0824

Fineness Modulus	C _u	C _c
3.55	14.10	1.00

Alpha Analytical

Particle Size Distribution Report



GRAIN SIZE - mm.

%	+3"	% Gravel		% Sand			% Fines			
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay		
<input type="radio"/>	0.0	0.0	4.8	7.3	27.1	49.3	11.5			
<input checked="" type="checkbox"/>	LL	PL	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
<input type="radio"/>			1.5766	0.4112	0.2775	0.1375	0.0840			

Material Description	USCS	AASHTO
<input type="radio"/>		

Project No.	Client:	Remarks:
Project:		
<input type="radio"/> Source of Sample: L36	Sample Number: L1503503-14	
Alpha Analytical		Figure
Mansfield, MA		

GRAIN SIZE DISTRIBUTION TEST DATA

3/16/2015

Location: L36

Sample Number: L1503503-14

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 132.90
 Tare Wt. = 0.00
 Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
132.90	0.00	0.75	0.00	0.00	100.0
		#4	6.39	0.00	95.2
		#10	9.65	0.00	87.9
		#40	36.07	0.00	60.8
		#200	65.46	0.00	11.5

Fractional Components

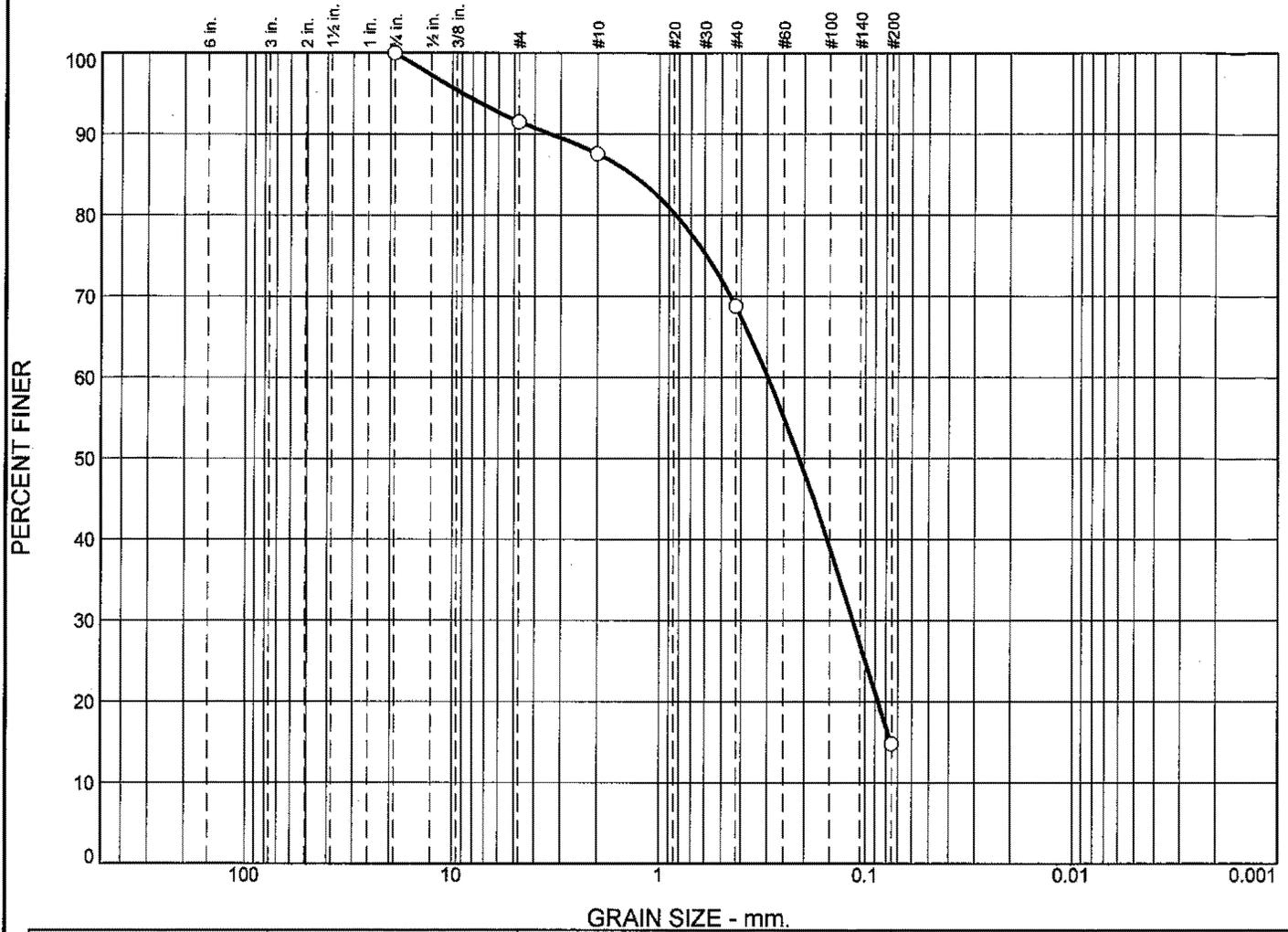
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	4.8	4.8	7.3	27.1	49.3	83.7			11.5

D10	D15	D20	D30	D50	D60	D80	D85	D90	D95
	0.0840	0.0988	0.1375	0.2775	0.4112	1.1197	1.5766	2.4292	4.5977

Fineness Modulus
1.83

Alpha Analytical

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	8.5	3.9	18.8	54.0	14.8	

LL	PL	D85	D60	D50	D30	D15	D10	Cc	Cu
		1.3524	0.2966	0.2101	0.1150	0.0754			

Material Description	USCS	AASHTO

Project No.	Client:	Remarks:
Project:		
Source of Sample: L37	Sample Number: L1503503-15	
Alpha Analytical		Figure
Mansfield, MA		

GRAIN SIZE DISTRIBUTION TEST DATA

3/16/2015

Location: L37

Sample Number: L1503503-15

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 150.64
 Tare Wt. = 0.00
 Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
150.64	0.00	0.75	0.00	0.00	100.0
		#4	12.76	0.00	91.5
		#10	5.94	0.00	87.6
		#40	28.30	0.00	68.8
		#200	81.34	0.00	14.8

Fractional Components

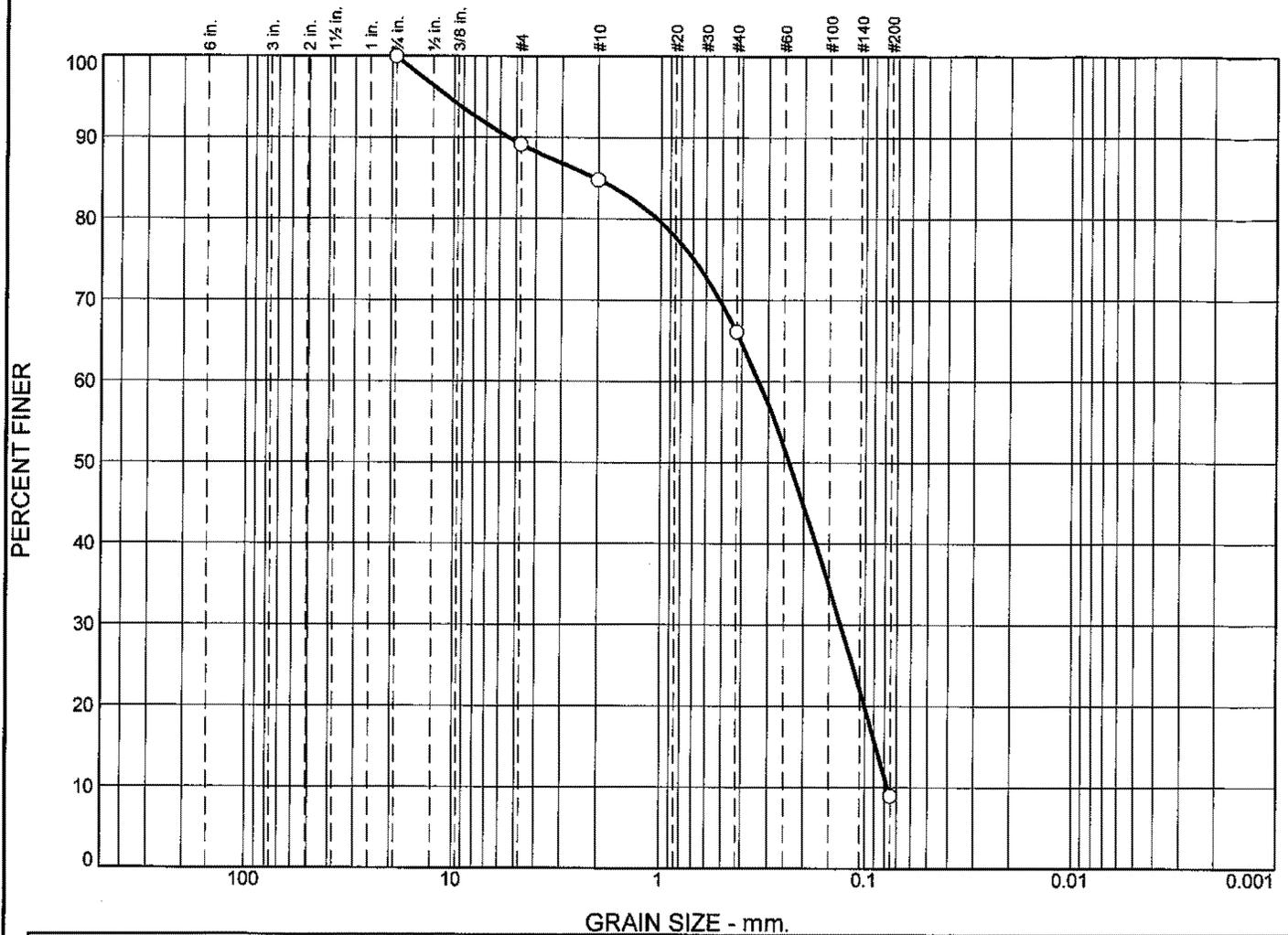
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	8.5	8.5	3.9	18.8	54.0	76.7			14.8

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
	0.0754	0.0867	0.1150	0.2101	0.2966	0.8246	1.3524	3.3538	8.9082

Fineness Modulus
1.66

Alpha Analytical

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	10.8	4.4	18.7	57.1	9.0	

LL	PL	D85	D60	D50	D30	D15	D10	Cc	Cu
		2.0693	0.3314	0.2350	0.1311	0.0878	0.0771	0.67	4.30

Material Description	USCS	AASHTO

Project No. _____ Client: _____

Project: _____

Source of Sample: L38 Sample Number: L1503503-16

Alpha Analytical

Mansfield, MA

Remarks:

Figure

GRAIN SIZE DISTRIBUTION TEST DATA

3/16/2015

Location: L38

Sample Number: L1503503-16

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 116.11
 Tare Wt. = 0.00
 Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
116.11	0.00	0.75	0.00	0.00	100.0
		#4	12.58	0.00	89.2
		#10	5.05	0.00	84.8
		#40	21.71	0.00	66.1
		#200	66.36	0.00	9.0

Fractional Components

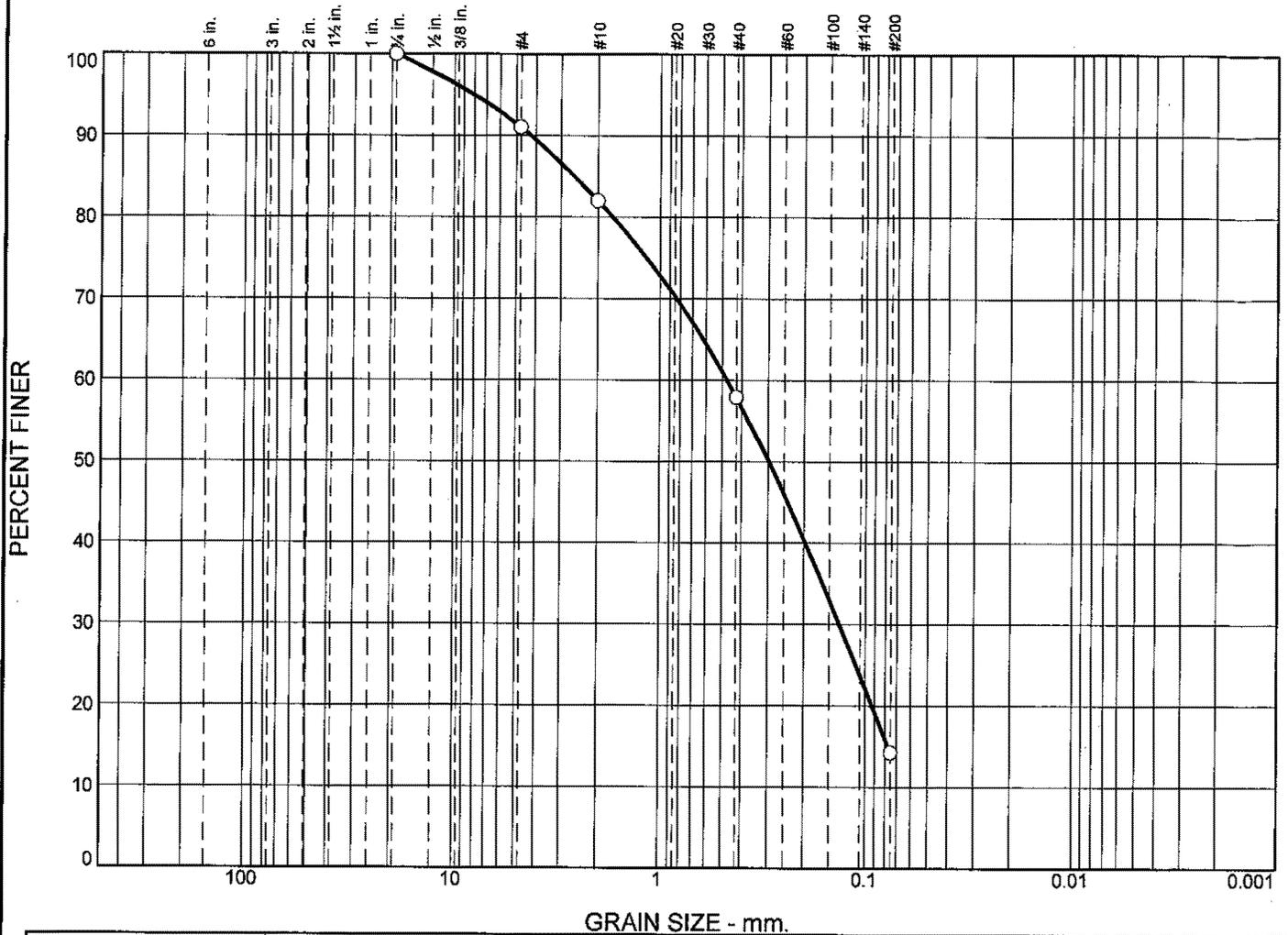
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	10.8	10.8	4.4	18.7	57.1	80.2			9.0

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.0771	0.0878	0.1002	0.1311	0.2350	0.3314	1.0383	2.0693	5.4518	10.6819

Fineness Modulus	C _u	C _c
1.85	4.30	0.67

Alpha Analytical

Particle Size Distribution Report



GRAIN SIZE - mm.									
% +3"	% Gravel		% Sand			% Fines		C _c	C _u
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay		
0.0	0.0	9.0	9.0	24.1	43.6	14.3			
LL	PL	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀		
		2.5912	0.4715	0.2958	0.1336	0.0770			

Material Description	USCS	AASHTO

Project No.	Client:	Remarks:
Project:		
Source of Sample: L40	Sample Number: L1503503-17	
Alpha Analytical		
Mansfield, MA		Figure

GRAIN SIZE DISTRIBUTION TEST DATA

3/16/2015

Location: L40

Sample Number: L1503503-17

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 106.71
 Tare Wt. = 0.00
 Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
106.71	0.00	0.75	0.00	0.00	100.0
		#4	9.57	0.00	91.0
		#10	9.63	0.00	82.0
		#40	25.71	0.00	57.9
		#200	46.57	0.00	14.3

Fractional Components

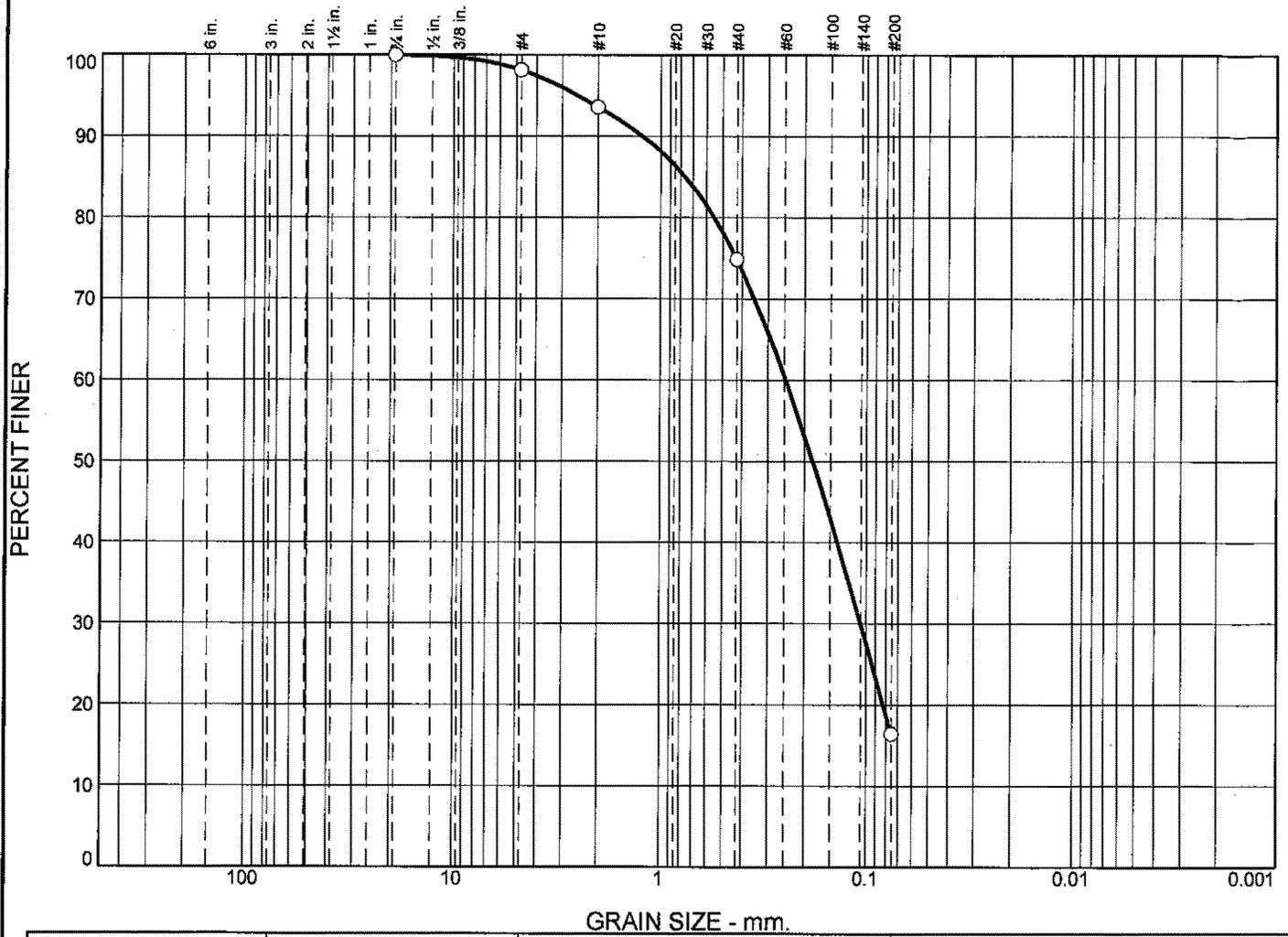
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	9.0	9.0	9.0	24.1	43.6	76.7			14.3

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
	0.0770	0.0924	0.1336	0.2958	0.4715	1.6969	2.5912	4.2309	8.0276

Fineness Modulus
2.06

Alpha Analytical

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	1.9	4.5	18.7	58.5	16.4	

LL	PL	D85	D60	D50	D30	D15	D10	Cc	Cu
		0.7583	0.2460	0.1821	0.1062				

Material Description	USCS	AASHTO

Project No. Project: Source of Sample: L39	Client: Sample Number: L1503503-18	Remarks:
Alpha Analytical Mansfield, MA		

Figure

GRAIN SIZE DISTRIBUTION TEST DATA

3/16/2015

Location: L39

Sample Number: L1503503-18

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 116.42
 Tare Wt. = 0.00
 Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
116.42	0.00	0.75	0.00	0.00	100.0
		#4	2.16	0.00	98.1
		#10	5.32	0.00	93.6
		#40	21.76	0.00	74.9
		#200	68.08	0.00	16.4

Fractional Components

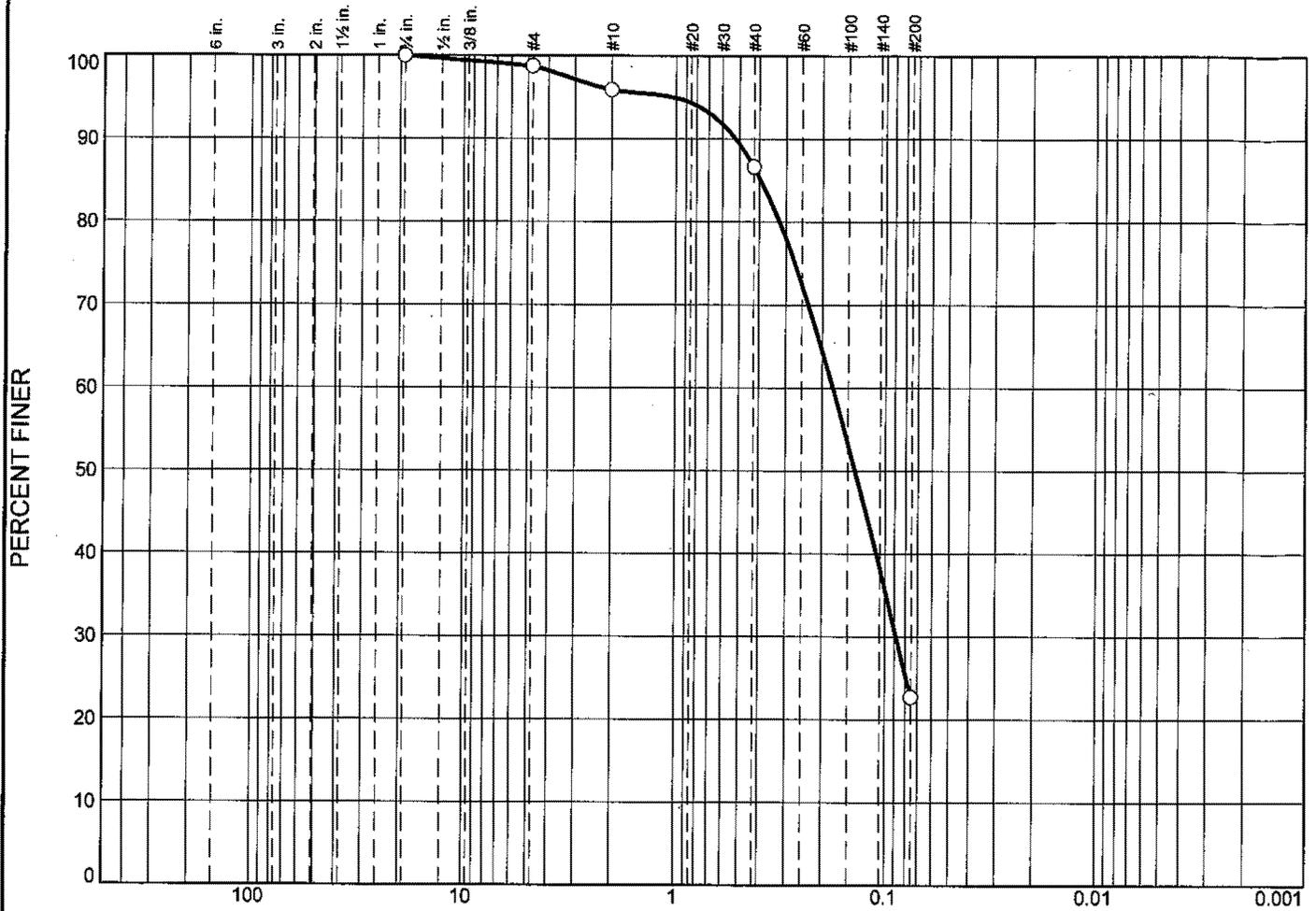
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	1.9	1.9	4.5	18.7	58.5	81.7			16.4

D10	D15	D20	D30	D50	D60	D80	D85	D90	D95
		0.0822	0.1062	0.1821	0.2460	0.5482	0.7583	1.2157	2.5177

Fineness Modulus
1.27

Alpha Analytical

Particle Size Distribution Report



GRAIN SIZE - mm.

% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	1.2	2.9	9.3	63.9	22.7	

LL	PL	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
		0.3926	0.1772	0.1386	0.0880				

Material Description	USCS	AASHTO

Project No.	Client:
Project:	
Source of Sample: L26A	Sample Number: L1503503-19
Alpha Analytical	
Mansfield, MA	

Remarks:

Figure

GRAIN SIZE DISTRIBUTION TEST DATA

3/16/2015

Location: L26A

Sample Number: L1503503-19

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 109.08
 Tare Wt. = 0.00
 Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
109.08	0.00	0.75	0.00	0.00	100.0
		#4	1.34	0.00	98.8
		#10	3.13	0.00	95.9
		#40	10.10	0.00	86.6
		#200	69.73	0.00	22.7

Fractional Components

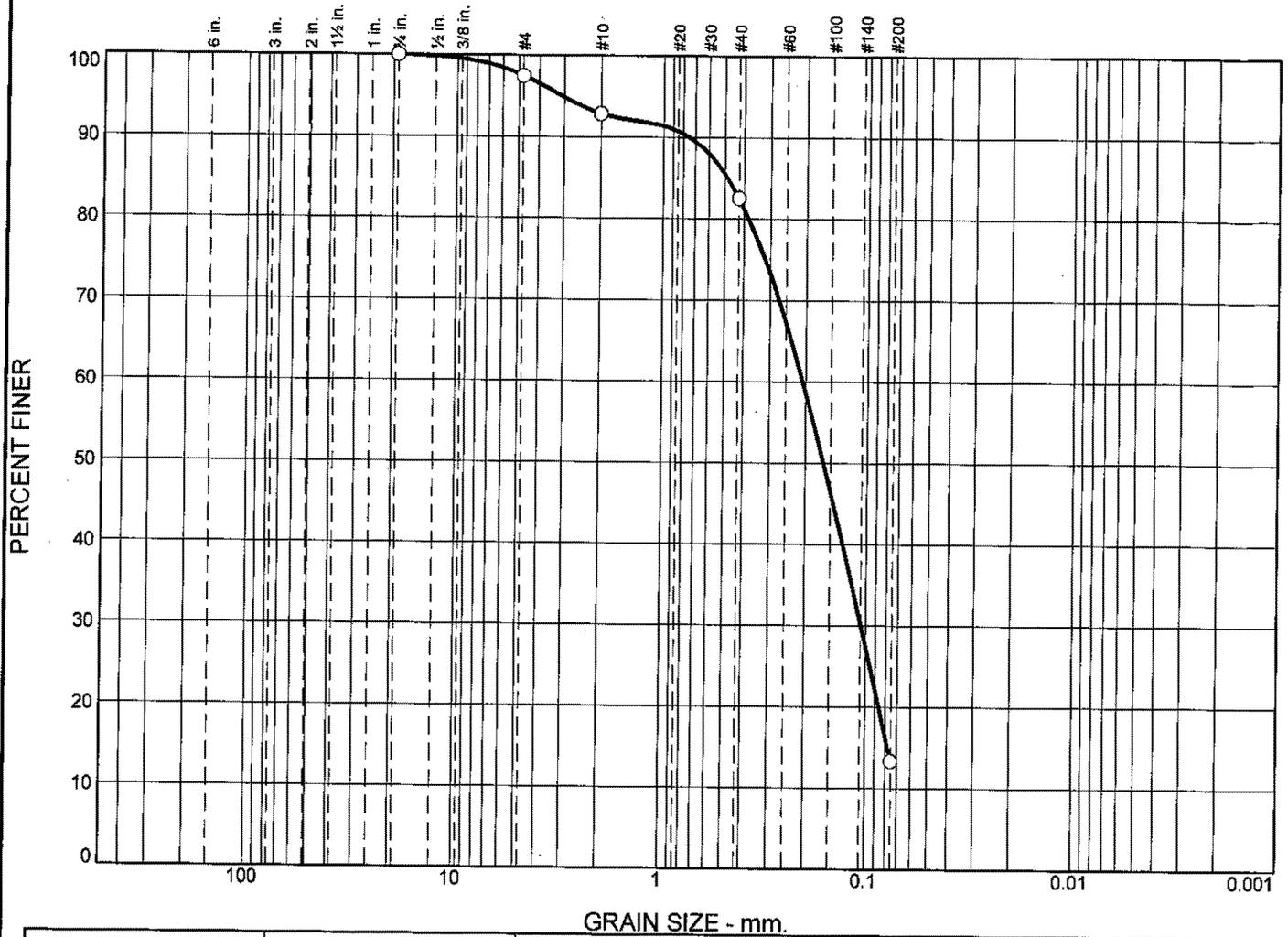
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	1.2	1.2	2.9	9.3	63.9	76.1			22.7

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
			0.0880	0.1386	0.1772	0.3206	0.3926	0.5194	1.0213

Fineness Modulus
0.87

Alpha Analytical

Particle Size Distribution Report



GRAIN SIZE DISTRIBUTION TEST DATA

3/16/2015

Location: L26B

Sample Number: L1503503-20

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 110.62
 Tare Wt. = 0.00
 Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
110.62	0.00	0.75	0.00	0.00	100.0
		#4	2.79	0.00	97.5
		#10	5.11	0.00	92.9
		#40	11.38	0.00	82.6
		#200	76.55	0.00	13.4

Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	2.5	2.5	4.6	10.3	69.2	84.1			13.4

D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
	0.0775	0.0858	0.1053	0.1622	0.2060	0.3796	0.4832	0.7465	3.0788

Fineness Modulus
1.10

Alpha Analytical

Table II-1: Completeness Checklist

Quality Assurance/Quality Control Questions	Yes/No? Comments?
1. Was the report signed by the responsible applicant approved representative?	Yes
2. Were the methods for sampling, chemical and biological testing described in the Sampling and Analysis Plan (SAP) and the Laboratory QA Plan (LQAP) followed?	Yes
3. If not, were deviations documented?	Yes
4. Was the SAP approved by the New England District?	
5. Did the applicant use a laboratory with a LQAP on file at the New England District?	Yes
6. Did the samples adequately represent the physical/chemical variability in the dredging area?	
7. Were the correct stations sampled (include the precision of the navigation method used)?	
8. Were the preservation and storage requirements in Chapter 8 of the EPA/Corps QA/QC Manual (EPA/USACE 1995) and EPA (2001d) followed?	Yes
9. Were the samples properly labeled?	Yes
10. Were all the requested data included?	Yes
11. Were the reporting limits met?	Yes
12. Were the chain-of-custody forms properly processed?	Yes
13. Were the method blanks run and were the concentration below the acceptance criteria?	Yes
14. Was the MDL study performed on each matrix (with this data submission) or within the last 12 months?	Yes
15. Were the SRM/CRM analyses within acceptance criteria?	No – see Narrative
16. Were the matrix spike/matrix spike duplicates run at the required frequency and was the percent recovery/RPD within the acceptance criteria?	No – see Narrative
17. Were the duplicate samples analyzed and were the RPDs within the required acceptance criteria?	No –see Narrative
18. For each analytical fraction of organic compounds, were recoveries for the internal standard within the acceptance criteria?	Yes
19. Were surrogate recoveries within the required acceptance criteria?	Yes

M:\Report\QC Summary Tables\2015\UCONN\L1503503.doc

Table II-1 (Continued): Completeness Checklist

Quality Assurance/Quality Control Questions	Yes/No? Comments?
20. Were corrective action forms provided for all non-conforming data?	Yes
21. Were all the species-specific test conditions in Appendix V met?	
22. Were the test-specific age requirements met for each test species?	
23. Was the bulk physical/chemical testing performed on the sediments/composites that were biologically tested?	
24. Were the mortality acceptance criteria met for the water column and sediment toxicity tests?	
25. Were the test performance requirements in Table 11.3 of EPA (1994a) met?	

Table II-2: Quality Control Summary for Analyses of Polyaromatic Hydrocarbons (PAHs) and other base-neutrals in Sediment and Tissue Matrices

Method Reference Number: 8270D

Quality Control (QC) Element	Acceptance Criteria*	Criteria Met? Yes/No	List results outside criteria (Cross-reference results table in data report)	Location of Results (Retained at Lab or in Data Package)
Initial Calibration	Must be performed prior to the analysis of any QC sample or field sample (<20 % RSD for each compound)	YES		Retained at Lab
Calculation of Method Detection Limits (MDLs)	For each matrix, analyzed once per 12 month period (see Section 5.2 for MDL procedure)	YES		Retained at Lab and On file at USACoE-NED
Calibration Verification (Second Source)	Once, after initial calibration (80 to 120% recovery of each compound)	YES		Retained at Lab
Continuing Calibration	At the beginning of every 12 hour shift ($\pm 15\%$ D)	YES		Retained at Lab
Standard Reference Materials	Within the limits provided by vendor	YES	In House Limits 40%-140%	In Data Package
Method Blank	No target analytes > RL	YES		In Data Package
Matrix Spike/Matrix Spike Duplicate (MS/MSD)	One set (MS/MSD) per group of field samples. Must contain all target analytes. (Recovery Limits 50 to 120%; RPD <30%)	YES		In Data Package
Analytical Replicates	Analyze one sample in duplicate for each group of field samples (RPD < 30%)	NO	Acenaphthylene (58%), Phenanthrene (61%), Anthracene (44%), Fluoranthene (59%), Pyrene (52%), Benz(a)anthracene (65%), Chrysene (51%), Benzo(b)fluoranthene (68%), Benzo(k)fluoranthene (41%), Benzo(a)pyrene (57%), Indeno(1,2,3-cd)pyrene (55%), Dibenz(a,h)anthracene (64%), Benzo(ghi)perylene (58%).	In Data Package
Surrogate Recoveries	Calculate % recovery (30 to	YES		In Data Package

M:\Report\QC Summary Tables\2015\UCONN\L1503503.doc

	150% recovery)			
Internal Standard Areas	Within 50 to 200% of internal standards in continuing calibration check	YES		Retained at Lab

* The Quality Control Acceptance Criteria are general guidelines. If alternate criteria are used, they must be documented in this table.

Table II-3: Quality Control Summary for the Analyses of Pesticides in Sediment, Tissue, and Water Matrices

Method Reference Number: 8081B

Quality Control (QC) Element	Acceptance Criteria*	Criteria Met? Yes/No	List results outside criteria (Cross-reference results table in data report)	Location of Results (Retained at Lab or in Data Package)
Initial Calibration	Must be performed prior to the analysis of any QC sample or field sample (<20 % RSD for each compound)	No	ICAL 10554: 4,4'-DDT Quadratic fit-column A ICAL 10776: 4,4'-DDE Quadratic fit-column A; 4,4'-DDT Quadratic fit-column A&B, Methoxychlor Quadratic fit-column B	Retained at Lab
Calculation of Method Detection Limits (MDLs)	For each matrix, analyzed once per 12 month period (see Section 5.2 for MDL procedure)	Yes		Retained at Lab and On file at USACoE-NED
Calibration Verification (Second Source)	Once, after initial calibration (80 to 120% recovery of each compound)	Yes		Retained at Lab
Continuing Calibration	Every 20 injections ($\pm 15\%$ D)	No	WG766870-1, opening for L1503503-01 through -06, WG766032-1,-2 and -3: Hexachlorobenzene @ 15.2%-column B, alpha-Chlordane @ 19.7%-column B WG766870-2, closing for L1503503-01 through 06, WG766032-1,-2,-3 and opening for L1503503-08 through -12: -alpha-Chlordane @ 18.2%-column B WG766870-3, closing for L1503503-08 through -12: alpha-Chlordane @ 18.1%-column B WG766870-5, closing for L1503503-13 through -20 and -07, WG766870-5 and -6: gamma-BHC @ 15.1%-column A, Aldrin @ 15.3%-column A, 4,4'-DDD @16.5%-column A	Retained at Lab

M:\Report\QC Summary Tables\2015\UCONN\L1503503.doc

			WG766870-6, opening for sample WG766870-4: gamma-BHC @ 15.4%- column A, Aldrin @ 15.4% -column A, Dieldrin @ 15.3 % -column A, 4,4'- DDD@ 15.7% -column A WG766870-7, closing for sample WG766032-4: gamma-BHC @ 16.4%- column A, Aldrin @ 16.5%-column A, Dieldrin @ 15.1%-column A	
Standard Reference Materials	Within the limits provided by vendor	No	SRM WG766032-7, Trans-nonachlor @ 316%	In Data Package
Method Blank	No target analytes > RL	Yes		In Data Package
Matrix Spike/Matrix Spike Duplicate (MS/MSD)	One set (MS/MSD) per group of field samples. Must contain all target analytes. (Recovery Limits 50 to 120%; RPD <30%)	Yes		In Data Package
Analytical Replicates	Analyze one sample in duplicate for each group of field samples (RPD < 30%)	Yes		In Data Package
Surrogate Recoveries	Calculate % recovery (30 to 150% recovery)	Yes		In Data Package

* The Quality Control Acceptance Criteria are general guidelines. If alternate criteria are used, they must be documented in this table.

Table II-4: Quality Control Summary for Analyses of Polychlorinated Biphenyls (PCB Congeners) in Sediment, Tissue, and Water Matrices

Method Reference Number: 8270D

Quality Control (QC) Element	Acceptance Criteria*	Criteria Met? Yes/No	List results outside criteria (Cross-reference results table in data report)	Location of Results (Retained at Lab or in Data Package)
Initial Calibration	Must be performed prior to the analysis of any QC sample or field sample (<20 % RSD for each compound)	YES		Retained at Lab
Calculation of Method Detection Limits (MDLs)	For each matrix, analyzed once per 12 month period (see Section 5.2 for MDL procedure)	YES		Retained at Lab and On file at USACoE-NED
Calibration Verification (Second Source)	Once, after initial calibration (80 to 120% recovery of each compound)	YES		Retained at Lab
Continuing Calibration	Every 20 injections ($\pm 15\%$ D)	YES		Retained at Lab
Standard Reference Materials	Within the limits provided by vendor	YES	In House limits 40%-140%	In Data Package
Method Blank	No target analytes > RL	YES		In Data Package
Matrix Spike/Matrix Spike Duplicate (MS/MSD)	One set (MS/MSD) per group of field samples. Must contain all target analytes. (Recovery Limits 50 to 120%; RPD <30%)	YES		In Data Package
Analytical Replicates	Analyze one sample in duplicate for each group of field samples (RPD < 30%)	YES		In Data Package
Surrogate Recoveries	Calculate % recovery (30 to 150% recovery)	YES		In Data Package

* The Quality Control Acceptance Criteria are general guidelines. If alternate criteria are used, they must be documented in this table.

Table II-5: Quality Control Summary for Analyses of Metals in Sediments, Tissue, and Water Matrices

Method Reference Numbers: Various Reference Numbers

Quality Control (QC) Element	Acceptance Criteria*	Criteria Met? Yes/No	List results outside criteria (Cross-reference results table in data report)	Location of Results (Retained at Lab or in Data Package)
Linear Range Determination for ICP	Performed Quarterly	Yes		Retained at Lab
Initial Calibration for AA, Hg	Performed Daily (Correlation Coefficient ≥ 0.995)	Yes		Retained at Lab
Calculation of Method Detection Limits (MDLs)	For each matrix, analyzed once per 12 month period (see Section 5.2 for MDL procedure)	Yes		Retained at Lab and On file at USACoE-NED
Initial Calibration Verification/ Continuing Calibration Verification	Hg: 80 to 120% recovery Other metals: 90 to 110% recovery	Yes		Retained at Lab
Initial Calibration Blank/ Continuing Calibration Blank	No target analytes > Instrument Detection Limit (IDL)	No	Results >3x IDL noted, on file at lab	Retained at Lab
Standard Reference Materials	Within the limits provided by vendor	Yes		In Data Package
Method Blank	No target analytes > RL	Yes		In Data Package
Sample Spike/ Sample Duplicate	One set per group of field samples. Must contain all target analytes. Recovery Limits (75 to 125%; RPD < 20% or < 35%)	Yes		In Data Package
Analytical Replicates	Analyze one sample in duplicate for each group of field samples (RPD < 30%)	Yes		In Data Package

* The Quality Control Acceptance Criteria are general guidelines. If alternate criteria are used, they must be documented in this table.

Table II-6: Quality Control Summary for Analyses of other Organic Chemicals not listed in Sediment, Tissue, and Water Matrices

Method Reference Numbers:

Quality Control (QC) Element	Acceptance Criteria*	Criteria Met? Yes/No	List results outside criteria (Cross-reference results table in data report)	Location of Results (Retained at Lab or in Data Package)
Initial Calibration	Must be performed prior to the analysis of any QC sample or field sample (<20 % RSD for each compound)			Retained at Lab
Calculation of Method Detection Limits (MDLs)	For each matrix, analyzed once per 12 month period (see Section 5.2 for MDL procedure)			In Data Package
Calibration Verification (Second Source)	Once, after initial calibration (80 to 120% recovery of each compound)			Retained at Lab
Continuing Calibration	At the beginning of every 12 hour shift ($\pm 15\%$ D)			Retained at Lab
Standard Reference Materials	Within the limits provided by vendor			In Data Package
Method Blank	No target analytes > RL			In Data Package
Matrix Spike/Matrix Spike Duplicate (MS/MSD)	One set (MS/MSD) per group of field samples. Must contain all target analytes. (Recovery Limits 50 to 120%; RPD <30%)			In Data Package
Analytical Replicates	Analyze one sample in duplicate for each group of field samples (RPD < 30%)			In Data Package
Surrogate Recoveries	Calculate % recovery (30 to 150% recovery)			In Data Package
Internal Standard Areas (if applicable)	Within 50 to 200% of internal standards in continuing calibration check			In Data Package

* The Quality Control Acceptance Criteria are general guidelines. If alternate criteria are used, they must be documented in this table.

Table II-7: Quality Control Summary for Analyses of Sediment Grain Size and Total Organic Carbon

Method Reference Numbers:

Quality Control (QC) Element	Acceptance Criteria*	Criteria Met? Yes/No	List results outside criteria (Cross-reference results table in data report)	Location of Results (Retained at Lab or in Data Package)
Grain Size: Analytical Replicates	Analyze one sample in duplicate for each group of field samples (RPD < 25%)	No	L1503503-07: Total gravel = 38% Total Fines = 29%	In Data Package
Total Organic Carbon: Standard Reference Materials	Within the limits provided by vendor	Yes		In Data Package
Total Organic Carbon: Analytical Replicates	Analyze one sample in duplicate for each group of field samples (RPD <30%)	Yes		In Data Package

* The Quality Control Acceptance Criteria are general guidelines. If alternate criteria are used, they must be documented in this table.

Table II-8: Quality Control Summary for Biological Toxicity Testing only

Method Reference Numbers:

Quality Control (QC) Element	Acceptance Criteria*	Criteria Met? Yes/No	List results outside criteria (Cross-reference results table in data report)	Location of Results (Retained at Lab or in Data Package)
Test condition requirements for each species: Temperature, Salinity, pH, D.O., Ammonia (Total, Un-ionized)	Test conditions within the requirements specified for each species			In Data Package
Test species age	Age/health within guidelines for each species (Appendix V)			In Data Package
Bulk physical/chemical analyses (If required by the Sampling plan)	Required? If so, performed? Yes or No			In Data Package
Water column toxicity test: Control mortality Control abnormality	 < 10% mean < 30% mussel/oyster; < 40% clam larvae, < 30% sea urchin larvae			In Data Package
Sediment toxicity test: Control mortality Compliance with applicable test acceptability requirements in Table 11.3 (EPA 1994a)	 < 10% mean (no chamber >20%) See EPA (1994a) Section 9; Table 11.3			In Data Package

* The Quality Control Acceptance Criteria are general guidelines. If alternate criteria are used, they must be documented in this table.

Reference:

Regional Implementation Manual for the Evaluation of Dredged Material Proposed for Disposal in New England Waters, U.S. EPA and U.S. Army Corps of Engineers, New England District, April 2004.

Certification Information

Last revised December 16, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

PAGE OF

Project Information

Project Name: LIS - USACoE RIM Dredge

Project Location: Eastern Long Island Sound

Project #:

Project Manager: James O'Donnell, UCONN

ALPHA Quote #: M2015009

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: **MAR 11 12** Time: 5:00pm

Westborough, MA Mansfield, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Client Information

Client: University of Connecticut

Address: 1080 Shennecossett Road

Groton, CT 06340

Phone: 860-405-9171

Fax:

Email: james.odonnell@uconn.edu

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: **2/26/15**

ALPHA Job #: **L1503503**

Report Information Data Deliverables

FAX EMAIL
 ADEx Add'l Deliverables

Billing Information

Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

Compliant with USACE RIM

ANALYSIS

Grain Size (ASTM D422)	Total Solids (SM 2540C)	Total Org. Carbon (EPA 9060) 2 reps	Metals (As,Cd,Cr,Cu,Pb,Hg,Ni,Zn)	PAHs (8270D - SIM)	Pesticides (8081B)	PCB Congeners (8270D - SIM)											
<input checked="" type="checkbox"/>	<input type="checkbox"/>																
<input checked="" type="checkbox"/>	<input type="checkbox"/>																
<input checked="" type="checkbox"/>	<input type="checkbox"/>																
<input checked="" type="checkbox"/>	<input type="checkbox"/>																
<input checked="" type="checkbox"/>	<input type="checkbox"/>																
<input checked="" type="checkbox"/>	<input type="checkbox"/>																
<input checked="" type="checkbox"/>	<input type="checkbox"/>																
<input checked="" type="checkbox"/>	<input type="checkbox"/>																
<input checked="" type="checkbox"/>	<input type="checkbox"/>																
<input checked="" type="checkbox"/>	<input type="checkbox"/>																
<input checked="" type="checkbox"/>	<input type="checkbox"/>																
<input checked="" type="checkbox"/>	<input type="checkbox"/>																

SAMPLE HANDLING
 Filtration
 Done
 Not Needed
 Lab to do
 Preservation
 Lab to do
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
03503.08	L41	2/26	0933	SE	KHS
09	L32	2/26	1005	SE	KHS
10	L35	2/26	1019	SE	KHS
11	L33	2/26	1035	SE	KHS
12	L31	2/26	1100	SE	KHS
13	L34	2/26	1119	SE	KHS
14	L36	2/26	1135	SE	KHS
15	L37	2/26	1236	SE	KHS
16	L38	2/26	1206	SE	KHS
17	L40	2/26	1330	SE	KHS

Container Type	P	A	A	A	A	A	A	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By: <i>[Signature]</i>	Date/Time: 2/26/15 1630	Received By: <i>[Signature]</i>	Date/Time: 2/26/15 1622
<i>[Signature]</i>	1800	<i>[Signature]</i>	2/26/15 1818

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

FORM NO: 01-01(I-NJ)
(rev. 5-JAN-12)



CHAIN OF CUSTODY

PAGE OF

Project Information

Westborough, MA Mansfield, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Project Name: LIS - USACoE RIM Dredge

Client Information

Client: University of Connecticut

Project Location: Eastern Long Island Sound

Address: 1080 Shennecossett Road

Project Manager: James O'Donnell, UCONN

Groton, CT 06340

ALPHA Quote #: M2015009

Phone: 860-405-9171

Turn-Around Time

Fax: Standard Rush (ONLY IF PRE-APPROVED)

Email: james.odonnell@uconn.edu

Due Date: MARCH 12 Time: 5:00pm

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 2/26/15

ALPHA Job #: L1503503

Report Information Data Deliverables

FAX EMAIL
 ADEx Add'l Deliverables

Billing Information

Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program Criteria
 Compliant with USACE RIM

ANALYSIS

Grain Size (ASTM D422)	Total Solids (SM 2540C)	Total Org. Carbon (EPA 9060) 2 reps	Metals (As,Cd,Cr,Cu,Pb,Hg,Ni,Zn)	PAHs (8270D - SIM)	Pesticides (8081B)	PCB Congeners (8270D - SIM)											
<input checked="" type="checkbox"/>	<input type="checkbox"/>																
<input checked="" type="checkbox"/>	<input type="checkbox"/>																
<input checked="" type="checkbox"/>	<input type="checkbox"/>																
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						

SAMPLE HANDLING
 Filtration
 Done
 Not Needed
 Lab to do
 Preservation
 Lab to do
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
03503.18	L39	2/26	1345 EST	SE	KHS
19	L26A	2/26	1424	SE	KHS
20	L26B	2/26	1430	SE	KHS

Container Type	P	A	A	A	A	A	A	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By: Katherine Strade Date/Time: 2/26/15 1630
J. Smith Date/Time: 2/26/15 1818

Received By: William V. White Date/Time: 2/26/15 1630
Wendy Bauler Date/Time: 2/26/15 1818

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

CHAIN OF CUSTODY

PAGE OF



Project Information

Westborough, MA Mansfield, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Project Name: LIS - USACoE RIM Dredge

Client Information

Client: University of Connecticut
 Address: 1080 Shennecossett Road
 Groton, CT 06340
 Phone: 860-405-9171

Project Location: Eastern Long Island Sound

Project #:
 Project Manager: James O'Donnell, UCONN

ALPHA Quote #: M2015009

Turn-Around Time

Fax: Standard Rush (ONLY IF PRE-APPROVED)

Email: james.odonnell@uconn.edu

These samples have been Previously analyzed by Alpha

Due Date: MARCH 10 Time: 5:00pm

Other Project Specific Requirements/Comments/Detection Limits:

FOR L-62 MS: L-62 MSD, USE SEDIMENT FROM SAME BOTTLE AS FOR SAMPLE L-62.

Date Rec'd in Lab: 2/24/15

ALPHA Job #: L1503503

Report Information Data Deliverables

FAX EMAIL
 ADEx Add'l Deliverables

Billing Information

Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program:
 Compliant with USACE RIM
 Criteria:

ANALYSIS

Grain Size (ASTM D422)	Total Solids (SM 2540C)	Total Org. Carbon (EPA 9060) 2 reps	Metals (As,Cd,Cr,Cu,Pb,Hg,Ni,Zn)	PAHs (8270D - SIM)	Pesticides (8081B)	PCB Congeners (8270D - SIM)											
<input checked="" type="checkbox"/>	<input type="checkbox"/>																
<input checked="" type="checkbox"/>	<input type="checkbox"/>																
<input checked="" type="checkbox"/>	<input type="checkbox"/>																
<input checked="" type="checkbox"/>	<input type="checkbox"/>																
<input checked="" type="checkbox"/>	<input type="checkbox"/>																
<input checked="" type="checkbox"/>	<input type="checkbox"/>																
<input checked="" type="checkbox"/>	<input type="checkbox"/>																
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>										
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>										

SAMPLE HANDLING
 Filtration
 Done
 Not Needed
 Lab to do
 Preservation
 Lab to do
 (Please specify below)

TOTAL # BOTTLES

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date 2015	Time EST		
03503_01	L-56	2/24	1122	SE	KHS
02	L-55	2/24	1201	SE	KHS
03	L-54	2/24	1235	SE	KHS
04	L-53	2/24	1301	SE	KHS
05	L-52	2/24	1352	SE	KHS
06	L-51	2/24	1420	SE	KHS
07	L-62	2/24	1435	SE	KHS
07	L-62 MS	2/24	1435	SE	KHS
07	L-62 MSD	2/24	1435	SE	KHS

Container Type	P	A	A	A	A	A	A	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	2/24/15 1633	<i>[Signature]</i>	2/24/15 1633
<i>[Signature]</i>	2/24/15 1807	<i>[Signature]</i>	2/24/15 1807

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.